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PROJECT REPORT FOR U.S. Geological Survey Texas Counties Lidar ARRA, Calhoun Co.

May 6, 2011
(revised June 2, 2011)

AEROMETRIC PROJECT NO. 1-101205



Airborne GPS Survey Report

For

U.S. Geological Survey (Calhoun County, TX - LiDAR)

NGTOC III

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AEROMETRIC Project No. 1101205

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USGS

Texas Counties Lidar ARRA, Calhoun Co.

Aerometric Project No. 1101205

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1 INTRODUCTION

This report contains a summary of the LiDAR data acquisition and processing for the **USGS – FOUR COUNTIES TEXAS LiDAR TASK ORDER, CALHOUN COUNTY.**

1.1 Contact Info

Questions regarding the technical aspects of this report should be addressed to:

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1.2 Purpose

AEROMETRIC, INC. acquired highly accurate Light Detection and Ranging (LiDAR) data for Calhoun County, Texas for the United State Geological Survey. Using AEROMETRIC's Optech 3100 AE LiDAR system, data was collected at 2500 meters to support the project area requirements.

1.3 Project Locations

This phase of the project covers Calhoun County, Texas as designed and supplied by USGS under Task Order No. G10PD02746, Contract No. G10PC00025 entered into on September 17, 2010 between the US Geological Survey – NGTOC III and AeroMetric, Inc.

1.4 Time Period

LiDAR data acquisition, control and QC surveys were completed between December 9th, 2010 and February 12th, 2011. A total of 4 flight missions were required to cover Calhoun County. See Item 3.4 for a sketch of the acquisition missions and Section 7 of the report for each flight log. QC surveys were completed between December 9th, 2010 and May 21st, 2011.

1.5 Project Scope

AEROMETRIC, INC. acquired highly accurate Light Detection and Ranging (LiDAR) data for Calhoun County which encompass approximately 540 square miles in southern Texas. Using AEROMETRIC's Optech 3100 AE LiDAR system, data was collected at 2500 meters to support this phase of the project area's requirements.

As documented in our proposal dated September 9, 2010 we were to achieve a TIN accuracy of 24.5 cm for all areas. The accuracy as tested and published in this report in Section 8 has easily met the vertical accuracy requirements.

1.6 Conditions Affecting Progress

- None.

2 GEODETIC CONTROL

2.1 Network Scope

Base horizontal control for the check point surveys consisted of one NGS Order B station: **LAVAPORT**; and two NGS CORS stations: **TXPV** and **TXVA**.

Horizontal control is referenced to the Universal Transverse Mercator (UTM) Coordinate System – Zone 14, based on the North American Datum of 1983/2007 (NAD83/07). Final coordinates are published in meters.

Base vertical control for the check point surveys consisted of two NGS First Order, Class 1 stations: **A 1257** and **E 1258**; one NGS Third Order station: **B 595 RESET 1971**; one NGS Fourth Order station: **LAVAPORT**, and two NGS CORS stations: **TXPV** and **TXVA**. The NGS Geoid Model GEOID09 was applied to the derived ellipsoid heights that approximate the North American Vertical Datum of 1988.

Vertical control is based on the North American Vertical Datum of 1988 (NAVD88).

Base horizontal and vertical control for the Airborne GPS surveys consisted of four NGS CORS stations: **ARP 7**, **TXCC**, **TXPV**, and **TXVA**.

NGS recovery sheets are located in Section 2 of the Control Survey Report.

2.2 Network Computations

GPS measurements were done in two stages. Initial computations were done with LEICA Geo Office (LGO), version 4.0. LGO permits the conversion of raw satellite data collected by the receivers to a meaningful coordinate difference between points (baseline solutions). Once the baseline solutions were determined, they were input into the GeoSurv-GeoLab2 series of programs (Geolab version 2.4d). Adjustments were performed for analysis and quality closure holding the position and elevation of **LAVAPORT** fixed, as shown below.

HORIZONTAL CLOSURES (in meters)

STATION	NORTHING	EASTING	LINEAR	DISTANCE	PROPORTION
TXPV	0.022	0.007	0.023	6388.0	1: 277000
TXVA	0.025	0.005	0.025	30064.9	1:1202000

VERTICAL CLOSURES (in meters)

STATION	ADJUSTED ELEVATION	PUBLISHED ELEVATION	DIFFERENCE	ALLOWABLE 3 rd ORDER CLOSURE		
				DISTANCE	3 rd ORDER	CLOSURE
A 1257	16.964	16.961	0.003	19696.2		0.053
B 595 RESET	12.021	12.100	0.079	30544.1		0.066

E 1258	8.164	8.168	0.004	23722.5	0.058
TXPV	-15.180*	-15.191*	0.011	6388.0	0.030
TXVA	11.186*	11.151*	0.035	30064.9	0.066

* Ellipsoid elevation

All the published control values were held in the fully constrained scaled least squares base network adjustment that was used to derive the Ground Control Checkpoints.

3 LiDAR ACQUISITION & PROCEDURES

3.1 Acquisition Time Period

LiDAR data acquisition and Airborne GPS control surveys were completed between December 9th, 2010 and February 12th, 2011. A total of 4 flight missions were required to cover the area of Calhoun county.

3.2 LiDAR Planning

The LiDAR data for this project was collected with AeroMetric's Optech 3100 AE Airborne LiDAR system (Serial Number 03SSEN145). All flight planning and acquisition was completed using Optech's ALTM-Nav, version 2.1.25b (flight planning and LiDAR control software).

The following are the acquisition settings for Calhoun County.

- Flying Height (Above Ground): 2500 meters
- Laser Pulse Rate: 50 kHz
- Mirror Scan Frequency: 24.5 Hz
- Scan Angle (+/-): 17°
- Side Lap: 30 %
- Ground Speed: 160 kts
- Nominal Point Spacing: 1.5 meters

3.3 LiDAR Acquisition

A total of 4 flight missions were required to cover the project area. The missions were flown using the above planned values. See section 3.4 for a sketch of the acquisition missions and Section 6 of the report for each flight log.

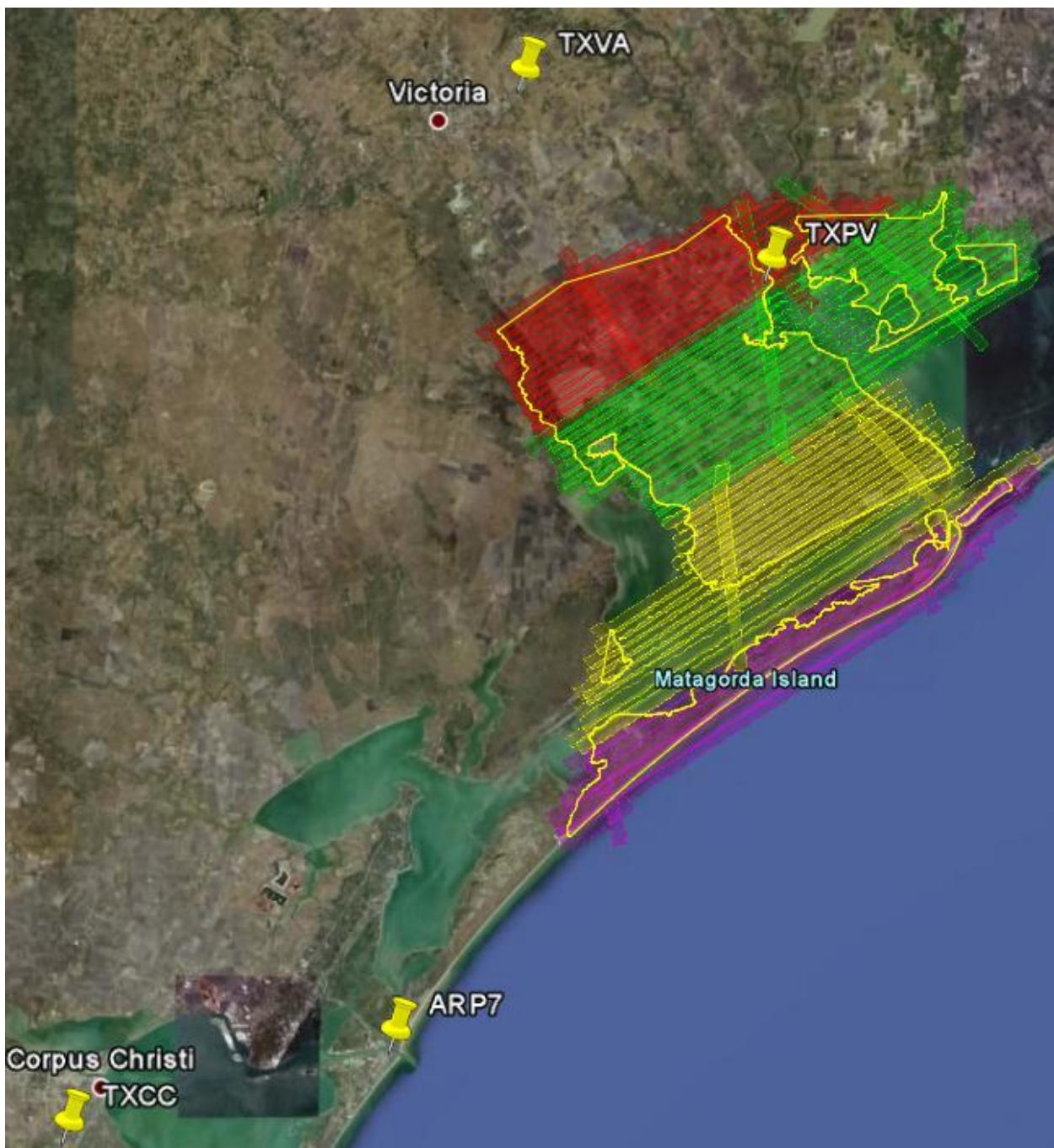
Airborne GPS and IMU trajectories for the LiDAR sensor were also acquired during the time of flight.

Each mission was typically four to five hours long. Before take-off, the LiDAR system and the Airborne GPS and IMU systems were initiated for a period of five

minutes and then again after landing for another five minutes. The missions acquired data according to the planned flight lines and included a minimum of one (usually two) cross flights. The cross flights were flown perpendicular to the planned flight lines and their data used in the in-situ calibration of the sensor.

3.4 LiDAR Trajectory Processing

The airborne positioning was based on the following control stations: ARP7, TXCC, TXPV, and TXVA.



4 QC SURVEYS

The check point survey was performed between December 9th, 2010 and May 21st, 2011 using Rapid Static GPS techniques. A total of 126 check points were surveyed across the project area. These points were collected in hard surface, short grass, and tall grass ground classification categories. Hard surface points were used to assess Fundamental Vertical Accuracy. Twenty hard surface points were not used in the assessment and were delivered to the client along with the short grass and tall grass points.

The control stations mentioned above to support the Airborne GPS acquisition were also used to complete the QC surveys.

See Section 5 of the control report for a complete listing.

5 FINAL LiDAR PROCESSING

5.1 ABGPS and IMU Processing

Airborne GPS

Applanix - POSGPS

Utilizing carrier phase ambiguity resolution on the fly (i.e., without initialization). The solution to sub-decimeter kinematic positioning without the operational constraint of static initialization as used in semi-kinematic or stop-and-go positioning was utilized for the airborne GPS post-processing.

The processing technique used by Applanix, Inc. for achieving the desired accuracy is Kinematic Ambiguity Resolution (KAR). KAR searches for ambiguities and uses a special method to evaluate the relative quality of each intersection (RMS). The quality indicator is used to evaluate the accuracy of the solution for each processing computation. In addition to the quality indicator, the software will compute separation plots between any two solutions, which will ultimately determine the acceptance of the airborne GPS post processing.

Inertial Data

The post-processing of inertial and aiding sensor data (i.e. airborne GPS post processed data) is to compute an optimally blended navigation solution. The Kalman filter-based aided inertial navigation algorithm generates an accurate (in the sense of least-square error) navigation solution that will retain the best characteristics of the processed input data. An example of inertial/GPS sensor blending is the following: inertial data is smooth in the short term. However, a free-inertial navigation solution has errors that grow without bound with time. A GPS navigation solution exhibits short-term noise but has errors that are bounded. This optimally blended navigation solution will retain the best features of both, i.e. the blended navigation solution has errors that are smooth and bounded.

The resultant processing generates the following data:

- Position: Latitude, Longitude, Altitude
- Velocity: North, East, and Down components
- 3-axis attitude: roll, pitch, true heading
- Acceleration: x, y, z components
- Angular rates: x, y, z components

The Applanix software, version 4.4 as well as MMS version 5.2 were used to determine both the ABGPS trajectory and the blending of inertial data.

The airborne GPS and blending of inertial and GPS post-processing were completed in multiple steps.

1. The collected data was transferred from the field data collectors to the main computer. Data was saved under the project number and separated between LiDAR mission dates. Inside each mission date, a sub-directory was created with the aircraft's tail number and an A or B suffix was attached for the time of day when the data was collected. Inside the tail number sub-directory, five sub-directories were also created EO, GPS, IMU, PROC, and RAW.
2. The aircraft raw data (IMU and GPS data combined) was run through a data extractor program. This separated the IMU and GPS data. In addition to the extracting of data, it provided the analyst the first statistics on the overall flight. The program was POSPac (POS post-processing PACkage).
3. Executing POSGPS program to derive accurate GPS positions for all flights:

Applanix POSGPS

The software utilized for the data collected was PosGPS, a kinematic on-the-fly (OTF) processing software package. Post processing of the data is computed from each base station (Note: only base stations within the flying area were used) in both a forward and backward direction. This provides the analyst the ability to Quality Check (QC) the post processing, since different ambiguities are determined from different base stations and also with the same data from different directions.

The trajectory separation program is designed to display the time of week that the airborne or roving antenna traveled, and compute the differences found between processing runs. Processed data can be compared between a forward/reverse solution from one base station, a reverse solution from one base station and a forward solution from the second base station, etc. For the Applanix POSGPS processing, this is considered the final QC check for the given mission. If wrong ambiguities were found with one or both runs, the analyst would see disagreements from the trajectory plot, and re-processing would continue until an agreement was determined.

Once the analyst accepts a forward and reverse processing solution, the trajectory plot is analyzed and the combined solution is stored in a file format acceptable for the IMU post processor.

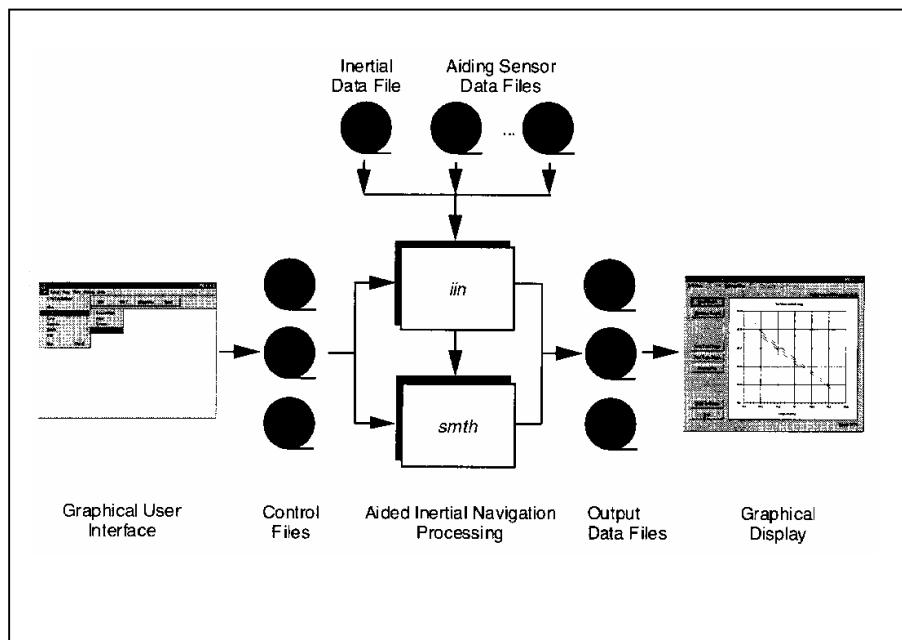
Please see Section 7 of the control report for the final accepted trajectory plots.

4. When the processed trajectory data is accepted after quality control analysis, the combined solution is stored in a file format acceptable for the IMU post processor (i.e. POSProc).

5. Execute POSProc.

POSProc comprises a set of individual processing interface tools that execute and provide the following functions:

This diagram shows the organization of these tools, and is a function of the



POSProc processing components.

- Integrated Inertial Navigation (*iin*) Module.

The name *iin* is a contraction of Integrated Inertial Navigation. *iin* reads inertial data and aiding data from data files specified in a processing environment file and computes the aided inertial navigation solution. The inertial data comes from a strapdown IMU. *iin* outputs the navigation data between start and end times at a data rate as specified in the environment file. *iin* also outputs Kalman filter data for analysis of estimation error statistics and smoother data that the smoothing program *smth* uses to improve the navigation solution accuracy.

iin implements a full strapdown inertial navigator that solves Newton's equation of motion on the earth using inertial data from a strapdown IMU. The inertial navigator implements coning and sculling compensation to handle potential problems caused by vibration of the IMU.

- Smoother Module (*smth*).

smth is a companion processing module to *iin*. *smth* is comprised of two individual functions that run in sequence. *smth* first runs the *smoother function* and then runs the *navigation correction function*.

The *smth* smoother function performs backwards-in-time processing of the forwards-in-time blended navigation solution and Kalman filter data generated by *iin* to compute smoothed error estimates. *smth* implements a modified Bryson-Frazier smoothing algorithm specifically designed for use with the *iin* Kalman filter. The resulting smoothed strapdown navigator error estimates at a given time point are the optimal estimates based on all input data before and after the given time point. In this sense, *smth* makes use of all available information in the input data. *smth* writes the smoothed error estimates and their RMS estimation errors to output data files.

The *smth* navigation correction function implements a feedforward error correction mechanism similar to that in the *iin* strapdown navigation solution using the smoothed strapdown navigation errors. *smth* reads in the smoothed error estimates and with these, corrects the strapdown navigation data. The resulting navigation solution is called a Best Estimate of Trajectory (BET), and is the best obtainable estimate of vehicle trajectory with the available inertial and aiding sensor data.

The above mentioned modules provide the analyst the following statistics to ensure that the most optimal solution was achieved: a log of the *iin* processing, the Kalman filter Measurement Residuals, Smoothed RMS Estimation Errors, and Smoothed Sensor Errors and RMS.

5.2 LiDAR “Point Cloud” Processing

The ABGPS/IMU post processed data along with the LiDAR raw measurements were processed using Optech Incorporated’s ASDA software. This software was used to match the raw LiDAR measurements with the computed ABGPS/IMU positions and attitudes of the LiDAR sensor. The result was a “point cloud” of LiDAR measured points referenced to the ground control system.

5.3 LIDAR CALIBRATION

Introduction

The purpose of the LiDAR system calibration is to refine the system parameters in order for the post-processing software to produce a “point cloud” that best fits the actual ground.

The following report outlines the calibration techniques employed for this project.

Calibration Procedures

AEROMETRIC routinely performs two types of calibrations on its Optech 3100 LiDAR system. The first calibration, system calibration, is performed whenever the LiDAR system is installed in the aircraft. This calibration is performed to define the system parameters affected by the physical misalignment of the system versus aircraft. The second calibration, in-situ calibration, is performed for each mission using that mission’s data. This calibration is performed to refine the system parameters that are affected by the on-site conditions as needed.

System Calibration and Correction Software

Optech developed proprietary calibration software in December of 2009 that performs the system calibration. The results from this new software achieved excellent results and an accuracy that meets the project requirements.

This new calibration tool incorporates Optech’s proprietary optical sensor models to compute laser point positions and provide laser point calibration improvements on a per flightline basis for the entire project area. It furthermore calculates planar surfaces at different angles from each flight line and then uses a robust least squares solution to compute the orientation parameters at the optical level instead of the traditional methods relating to the ground points. Determining and correcting at the optical level is critical when correcting the data especially when working in terrain and aggressive design parameters as found in this project. Each flight line was computed individually and output in LAS 1.2 format.

In-situ Calibration

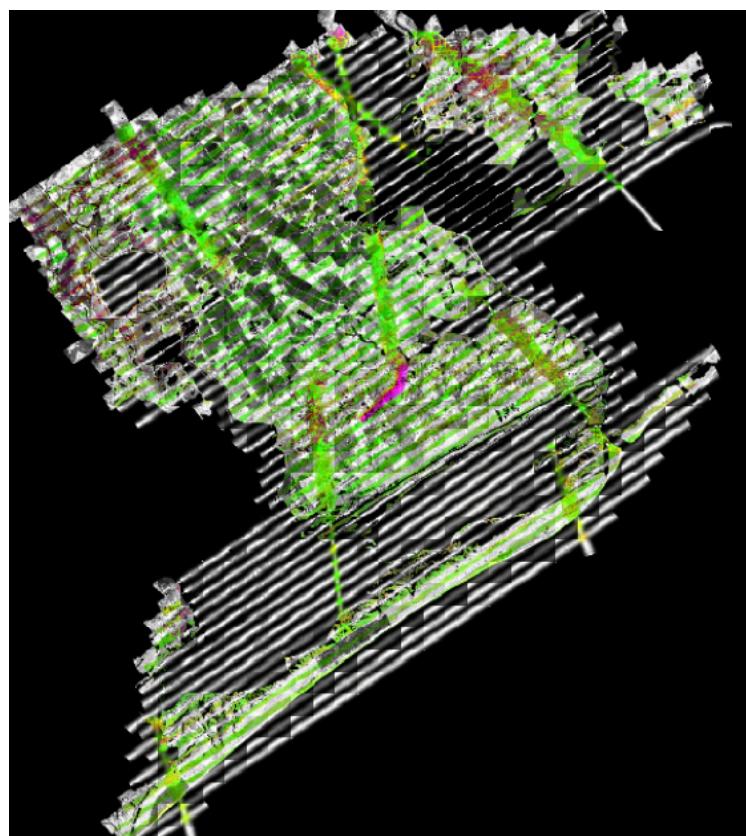
The in-situ calibration is performed as needed using the mission’s data. This calibration is performed to refine the system parameters that are affected by the on-site conditions.

For each mission, LiDAR data for at least one cross flight is acquired over the mission’s acquisition site. The processed data of the cross flight is compared to the perpendicular flight lines using either the Optech proprietary software or TerraSolid’s TerraMatch software to determine if any systematic errors are present. In this calibration, the data of individual flight lines are compared against each other and their systematic errors are corrected in the final processed data.

5.4 LiDAR Processing

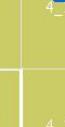
The LAS files were then imported, verified, and parsed into manageable, tiled grids using GeoCue version 7.0.34.5. GeoCue allows for ease of data management and process tracking.

The first step after the data has been processed and calibrated is to perform a relative accuracy assessment on the flightline to flightline comparisons and also a data density test prior to any further processing. To determine a proper accuracy assessment between flightlines, Aerometric uses GeoCue to create Orthos by elevation differences. The generated orthos have assigned elevation ranges that allow the technician to evaluate if the data passes the accuracy assessment and also determine if additional calibration efforts are needed based on the bias trends. Below is a screen capture of the elevation ortho where green indicates a flightline comparison of less than 0.05 meters; yellow is 0.050 – 0.100 meters; orange is 0.101 – 0.150 meters; red is 0.151 – 0.200 meters, and greater than 0.20 meters is magenta.



Calhoun County

In addition to the relative accuracy assessment, Aerometric also reviews some tiles to ensure that the required density has been met. AeroMetric utilizes an in-house proprietary software to complete this task. Initially a grid was placed according to the version 12 specification that is based on the nominal post spacing of 1.5 meters. The results indicated that the density of the sampled tiles achieved only 76% of the points meeting the specified data density criteria. However, using the latest USGS specification, version 13, which modifies the requirements to allow up to 2 times the nominal post spacing our data tests now easily meets the desired density requirements. Below are the statistics from the results of the inspected tiles as shown in the next image.

	4_155635	4_170635	4_185635	4_200635	4_215635	4_230635	4_245635	4_260635	4_275635	4_290635	
	4_155620	4_170620	4_185620	4_200620	4_215620	4_230620	4_245620	4_260620	4_275620	4_290620	
	4_155605	4_170605	4_185605	4_200605	4_215605	4_230605	4_245605	4_260605	4_275605	4_290605	
	4_155590	4_170590	4_185590	4_200590	4_215590	4_230590	4_245590	4_260590	4_275590	4_290590	
	4_155575	4_170575	4_185575	4_200575	4_215575	4_230575	4_245575	4_260575	4_275575	4_290575	

Sampled tiles: Calhoun County (4_155605, 4_170590, 4_185590, 4_185605, 4_230590, 4_230605, 4_245590, 4_245605, 4_260590, 4_260605, 4_275590, 4_275605, 4_290590, and 4_290605). These tiles were selected for having minimal surface water visible.

Run 1 (Version 12 – 1.5m)

Total number of cells: 14,028,014

Total number of cells with one point: 7,125,000

Total number of cells with one or more points: 10,670,251

Percentage of tiles with 1 or more points: 76.1%

Run 2 (Version 13 – 3.0m)

Total number of cells: 3,514,014

Total number of cells with one point: 30,772

Total number of cells with one or more points: 3,494,529

Percentage of tiles with 1 or more points: 99.4%

Once both the accuracy between swaths and data density is accepted an automated classification algorithm is performed using TerraSolid's TerraScan, version 10.020. This will produce the majority of the bare-earth datasets.

The remainder of the data was classified using manual classification techniques. The majority of the manual edit moved points misclassified as ground (class 2) to unclassified (class 1). Erroneous low points, high points, including clouds are classified to class 7.

5.4 Check Point Validation

The data was then verified using the ground control data collected by Aerometric. TerraScan is used to compute the vertical differences between the surveyed elevation and the LiDAR derived elevation closest to the surveyed point.

A report listing the differences and common statistics was created and can be found in Section 8 of this report.

5.5 LiDAR Data Delivery

Raw point cloud data supplied is in the following format:

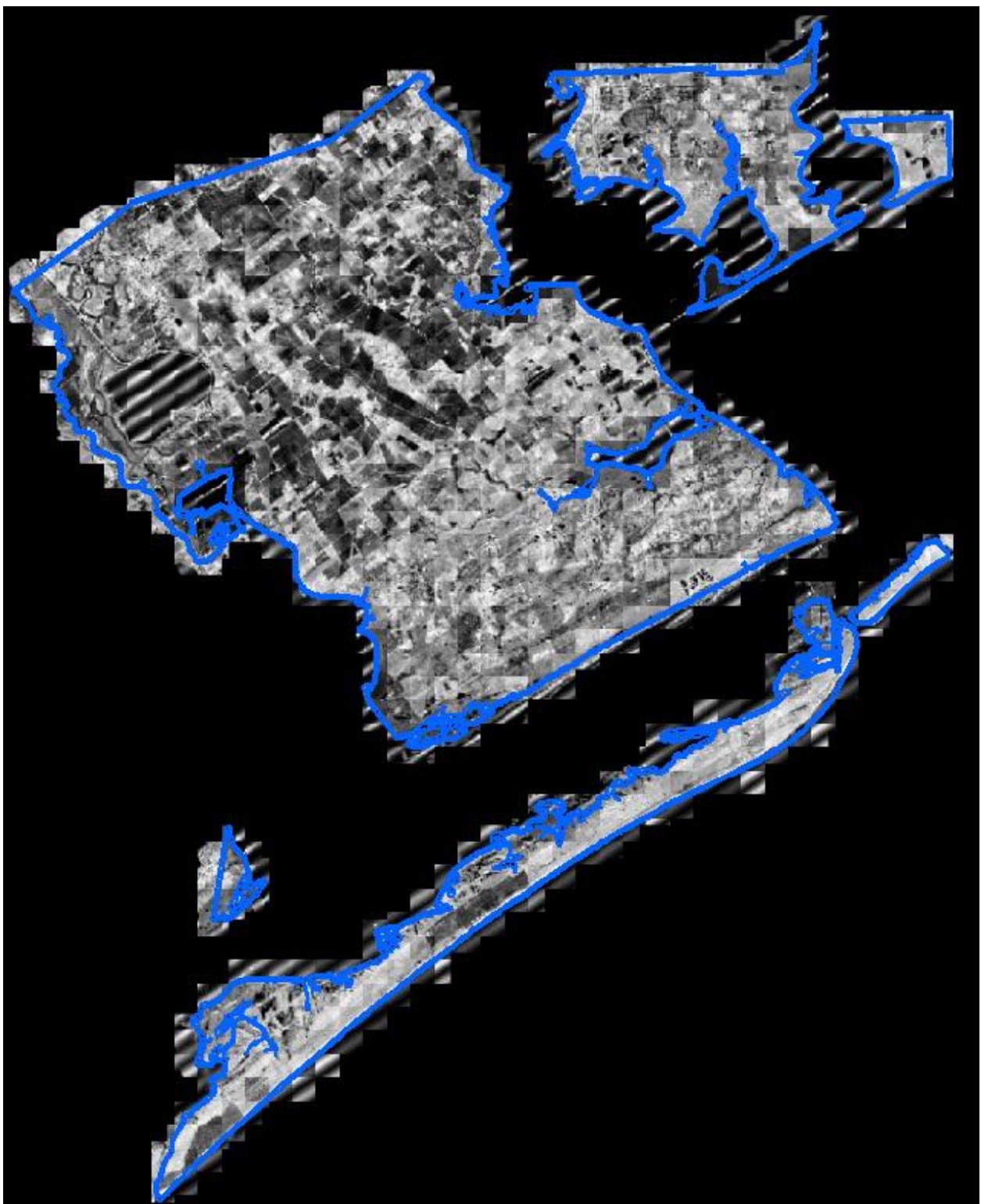
- LAS, version 1.2
- GPS times adjusted to GPS Absolute
- Full swaths and delivered as 1 file per swath which did not exceed 2gb.

Classified point cloud data is also being supplied using the following criteria.

- LAS, version 1.2
- GPS times adjusted to GPS Absolute
- Classification scheme:
 - Code 1 – Processed, but unclassified
 - Code 2 – Ground
 - Code 7 – Noise
 - Code 9 - Water
 - Code 10 – Ignored Ground (Breakline proximity)

The 2 meter bare-earth DEMs were created in the following manner. First, ArcGrids in ASCII format were created using TerraModeler version 10.005 (TerraSolid Ltd.). The ASCII grids were then imported into ARC and translated to raster format and placed in a geodatabase DEM feature dataset.

The first return 2 meter intensity images were created using GeoCue. These images are in GeoTiff format.



Calhoun County Intensity Raster

Breaklines are first collected in a Microstation environment using the base specifications. Upon acceptance of the breaklines, either polygons or lines, are translated into ARC and imported to the final geodatabase as separate features.

6 CONCLUSION

Because of the rigorous procedures and use of new technology, this project will serve the USGS and all users requiring the provided LiDAR derivative products for Calhoun County Texas well into the future. Although this project challenged both the equipment and personnel, the results are extremely accurate and reliable.

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

DATABASE = , PROGRAM = datasheet, VERSION = 7.85
1      National Geodetic Survey, Retrieval Date = FEBRUARY 14, 2011
AN1818 ****
AN1818 DESIGNATION - A 1257
AN1818 PID - AN1818
AN1818 STATE/COUNTY- TX/VICTORIA
AN1818 USGS QUAD - BLOOMINGTON (1995)
AN1818
AN1818          *CURRENT SURVEY CONTROL
AN1818
AN1818* NAD 83(1986) - 28 39 13.    (N)   096 53 00.    (W)    SCALED
AN1818* NAVD 88      -           16.961  (meters)      55.65  (feet)  ADJUSTED
AN1818
AN1818 GEOID HEIGHT-      -27.41  (meters)           GEOID09
AN1818 DYNAMIC HT -       16.936  (meters)      55.56  (feet)  COMP
AN1818 MODELED GRAV-     979,188.1  (mgal)           NAVD 88
AN1818
AN1818 VERT ORDER - FIRST CLASS I
AN1818
AN1818.The horizontal coordinates were scaled from a topographic map and have
AN1818.an estimated accuracy of +/- 6 seconds.
AN1818
AN1818.The orthometric height was determined by differential leveling and
AN1818.adjusted in June 1991.
AN1818
AN1818.The geoid height was determined by GEOID09.
AN1818
AN1818.The dynamic height is computed by dividing the NAVD 88
AN1818.geopotential number by the normal gravity value computed on the
AN1818.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AN1818.degrees latitude (g = 980.6199 gals.).
AN1818
AN1818.The modeled gravity was interpolated from observed gravity values.
AN1818
AN1818; SPC TXSC      North        East       Units  Estimated Accuracy
AN1818;           - 4,092,780.      806,900.    MT    (+/- 180 meters Scaled)
AN1818
AN1818          SUPERSEDED SURVEY CONTROL
AN1818
AN1818 NGVD 29 (??/?/92)  17.089  (m)      56.07  (f)  ADJ UNCH    1 1
AN1818
AN1818.Superseeded values are not recommended for survey control.
AN1818.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AN1818.See file dsdata.txt to determine how the superseded data were derived.
AN1818
AN1818_U.S. NATIONAL GRID SPATIAL ADDRESS: 14RQS068714(NAD 83)
AN1818_MARKER: DB = BENCH MARK DISK

```

2/14/2011

DATASHEETS

AN1818_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AN1818_SP_SET: STAINLESS STEEL ROD
AN1818_STAMPING: A 1257 1978
AN1818_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AN1818_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AN1818+SATELLITE: SATELLITE OBSERVATIONS - October 02, 2007

AN1818

AN1818 HISTORY	- Date	Condition	Report By
AN1818 HISTORY	- 1978	MONUMENTED	NGS
AN1818 HISTORY	- 20061101	GOOD	INDIV
AN1818 HISTORY	- 20071002	GOOD	INDIV

AN1818

AN1818 STATION DESCRIPTION

AN1818

AN1818'DESCRIBED BY NATIONAL GEODETIC SURVEY 1978

AN1818'0.7 MI NE FROM BLOOMINGTON.

AN1818'0.7 MILE NORTHEAST ALONG THE MISSOURI PACIFIC RAILROAD FROM THE
AN1818'STATION AT BLOOMINGTON, AT A GRAVEL ROAD LEADING NORTHWEST AND TWO
AN1818'OIL STORAGE TANKS, 20 FT NORTHWEST OF THE CENTERLINE OF A PAVED
AN1818'ROAD, 53 FT SOUTH OF THE SOUTH CORNER OF A CATTLE GUARD, 1 FT NORTHEAS
AN1818'OF A FENCE LINE, 13 FT SOUTH OF A POWERLINE POLE, 90 FT NORTHWEST
AN1818'OF THE NORTHWEST RAIL, DRIVEN TO REFUSAL AT A DEPTH OF 28 FT.

AN1818

AN1818 STATION RECOVERY (2006)

AN1818

AN1818'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2006 (KLC)

AN1818'RECOVERED AS DESCRIBED.

AN1818

AN1818 STATION RECOVERY (2007)

AN1818

AN1818'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DBP)

AN1818'RECOVERED AS DESCRIBED

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

DATABASE = , PROGRAM = datasheet, VERSION = 7.85
1      National Geodetic Survey, Retrieval Date = FEBRUARY 9, 2011
AN0455 ****
AN0455 DESIGNATION - B 595 RESET 1971
AN0455 PID - AN0455
AN0455 STATE/COUNTY- TX/REFUGIO
AN0455 USGS QUAD - TIVOLI (1973)
AN0455
AN0455          *CURRENT SURVEY CONTROL
AN0455
AN0455* NAD 83(1986) - 28 27 30.    (N)   096 54 09.    (W)     SCALED
AN0455* NAVD 88      -           12.10  (+/-2cm)       39.7    (feet)  VERTCON
AN0455
AN0455 GEOID HEIGHT-      -27.28 (meters)           GEOID09
AN0455 VERT ORDER - THIRD (See Below)
AN0455
AN0455.The horizontal coordinates were scaled from a topographic map and have
AN0455.an estimated accuracy of +/- 6 seconds.
AN0455
AN0455.The NAVD 88 height was computed by applying the VERTCON shift value to
AN0455.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
AN0455.The vertical order pertains to the NGVD 29 superseded value.
AN0455
AN0455.The geoid height was determined by GEOID09.
AN0455
AN0455;          North        East      Units  Estimated Accuracy
AN0455; SPC TXSC - 4,071,110.      805,420.    MT  (+/- 180 meters Scaled)
AN0455
AN0455          SUPERSEDED SURVEY CONTROL
AN0455
AN0455  NGVD 29 (01/29/03)  12.23   (m)        40.1    (f)  RESET      3
AN0455
AN0455.Superseeded values are not recommended for survey control.
AN0455.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AN0455.See file dsdata.txt to determine how the superseded data were derived.
AN0455
AN0455_U.S. NATIONAL GRID SPATIAL ADDRESS: 14RQS053497 (NAD 83)
AN0455_MARKER: DD = SURVEY DISK
AN0455_SETTING: 30 = SET IN A LIGHT STRUCTURE
AN0455_SP_SET: CULVERT
AN0455_STAMPING: B 595 RESET 1971
AN0455_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AN0455_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AN0455+SATELLITE: SATELLITE OBSERVATIONS - April 28, 2005
AN0455
AN0455 HISTORY      - Date      Condition      Report By
AN0455 HISTORY      - 1971      MONUMENTED    TXHD

```

2/9/2011

DATASHEETS

AN0455	HISTORY	- 1972	GOOD	TXHD
AN0455	HISTORY	- 1988	GOOD	USPSQD
AN0455	HISTORY	- 1990	GOOD	USPSQD
AN0455	HISTORY	- 19920809	GOOD	USPSQD
AN0455	HISTORY	- 19990726	GOOD	USPSQD
AN0455	HISTORY	- 20050428	GOOD	USPSQD

AN0455

STATION DESCRIPTION

AN0455

AN0455'DESCRIBED BY TEXAS HIGHWAY DEPARTMENT 1972

AN0455'1 MI W FROM TIVOLI.

AN0455'1 MILE WEST ALONG STATE HIGHWAY 113 FROM THE INTERSECTION OF STATE

AN0455'HIGHWAY 35 AT TIVOLI, SET IN THE TOP OF THE EAST END OF THE SOUTH

AN0455'HEADWALL OF A LARGE CONCRETE CULVERT, 28 FEET SOUTH OF THE CENTER LINE

AN0455'OF THE HIGHWAY AND ABOUT LEVEL WITH THE HIGHWAY.

AN0455

STATION RECOVERY (1988)

AN0455

AN0455'RECOVERY NOTE BY US POWER SQUADRON 1988 (GCM)

AN0455'RECOVERED IN GOOD CONDITION.

AN0455

STATION RECOVERY (1990)

AN0455

AN0455'RECOVERY NOTE BY US POWER SQUADRON 1990 (LT)

AN0455'RECOVERED IN GOOD CONDITION.

AN0455

STATION RECOVERY (1992)

AN0455

AN0455'RECOVERY NOTE BY US POWER SQUADRON 1992 (TWS)

AN0455'RECOVERED IN GOOD CONDITION.

AN0455

STATION RECOVERY (1999)

AN0455

AN0455'RECOVERY NOTE BY US POWER SQUADRON 1999

AN0455'RECOVERED IN GOOD CONDITION.

AN0455

STATION RECOVERY (2005)

AN0455

AN0455'RECOVERY NOTE BY US POWER SQUADRON 2005 (CHN)

AN0455'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

DATABASE = , PROGRAM = datasheet, VERSION = 7.85
1      National Geodetic Survey, Retrieval Date = FEBRUARY 14, 2011
AN1821 ****
AN1821 DESIGNATION - E 1258
AN1821 PID - AN1821
AN1821 STATE/COUNTY- TX/VICTORIA
AN1821 USGS QUAD - BLOOMINGTON (1995)
AN1821
AN1821          *CURRENT SURVEY CONTROL
AN1821
AN1821* NAD 83(1986) - 28 37 43.    (N)   096 55 22.    (W)    SCALED
AN1821* NAVD 88      -           8.168 (meters)        26.80 (feet)  ADJUSTED
AN1821
AN1821 GEOID HEIGHT- -27.42 (meters)                   GEOID09
AN1821 DYNAMIC HT - 8.156 (meters)        26.76 (feet)  COMP
AN1821 MODELED GRAV- 979,185.2 (mgal)                   NAVD 88
AN1821
AN1821 VERT ORDER - FIRST     CLASS I
AN1821
AN1821.The horizontal coordinates were scaled from a topographic map and have
AN1821.an estimated accuracy of +/- 6 seconds.
AN1821
AN1821.The orthometric height was determined by differential leveling and
AN1821.adjusted in June 1991.
AN1821
AN1821.The geoid height was determined by GEOID09.
AN1821
AN1821.The dynamic height is computed by dividing the NAVD 88
AN1821.geopotential number by the normal gravity value computed on the
AN1821.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AN1821.degrees latitude (g = 980.6199 gals.).
AN1821
AN1821.The modeled gravity was interpolated from observed gravity values.
AN1821
AN1821; SPC TXSC      North       East      Units  Estimated Accuracy
AN1821;           - 4,089,940.      803,100.    MT    (+/- 180 meters Scaled)
AN1821
AN1821          SUPERSEDED SURVEY CONTROL
AN1821
AN1821 NGVD 29 (??/?/92)    8.296 (m)        27.22 (f)  ADJ UNCH    1 1
AN1821
AN1821 Superseded values are not recommended for survey control.
AN1821.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AN1821.See file dsdata.txt to determine how the superseded data were derived.
AN1821
AN1821_U.S. NATIONAL GRID SPATIAL ADDRESS: 14RQS030686(NAD 83)
AN1821_MARKER: DB = BENCH MARK DISK

```

2/14/2011

DATASHEETS

AN1821_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AN1821_SP_SET: STAINLESS STEEL ROD
AN1821_STAMPING: E 1258 1978
AN1821_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AN1821_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AN1821+SATELLITE: SATELLITE OBSERVATIONS - October 02, 2007

AN1821

AN1821	HISTORY	- Date	Condition	Report By
AN1821	HISTORY	- 1978	MONUMENTED	NGS
AN1821	HISTORY	- 20061102	GOOD	INDIV
AN1821	HISTORY	- 20071002	GOOD	INDIV

AN1821

AN1821 STATION DESCRIPTION

AN1821

AN1821'DESCRIBED BY NATIONAL GEODETIC SURVEY 1978

AN1821'2.1 MI SW FROM BLOOMINGTON.

AN1821'2.1 MILES SOUTHWEST ALONG THE MISSOURI PACIFIC RAILROAD FROM THE
AN1821'RAILROAD STATION IN BLOOMINGTON, 82 FEET SOUTHEAST OF THE SOUTHEAST
AN1821'RAIL, 31 FEET NORTHEAST OF A CYCLONE FENCE CORNER, 19 FEET SOUTHEAST
AN1821'OF THE CENTER OF A GRAVEL ROAD AND 1 FOOT NORTHWEST OF A WIRE FENCE.

AN1821

AN1821 STATION RECOVERY (2006)

AN1821

AN1821'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2006 (KLC)

AN1821'RECOVERED AS DESCRIBED.

AN1821

AN1821 STATION RECOVERY (2007)

AN1821

AN1821'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DBP)

AN1821'RECOVERED AS DESCRIBED

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

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DATABASE = , PROGRAM = datasheet, VERSION = 7.85
1      National Geodetic Survey, Retrieval Date = FEBRUARY 9, 2011
AN2393 ****
AN2393 PACS      - This is a Primary Airport Control Station.
AN2393 DESIGNATION - LAVAPORT
AN2393 PID        - AN2393
AN2393 STATE/COUNTY- TX/CALHOUN
AN2393 USGS QUAD   - KAMEY (1995)
AN2393
AN2393          *CURRENT SURVEY CONTROL
AN2393
AN2393* NAD 83(2007)- 28 39 09.37709(N)    096 40 54.32098(W)    ADJUSTED
AN2393* NAVD 88     -           8.25      (meters)      27.1      (feet)    GPS OBS
AN2393
AN2393 EPOCH DATE  -       2002.00
AN2393 X           -   -651,746.367 (meters)               COMP
AN2393 Y           -  -5,563,339.844 (meters)               COMP
AN2393 Z           -  3,040,160.375 (meters)               COMP
AN2393 LAPLACE CORR-      1.18 (seconds)                  DEFLEC09
AN2393 ELLIP HEIGHT-      -19.006 (meters)      (02/10/07) ADJUSTED
AN2393 GEOID HEIGHT-      -27.27  (meters)                 GEOID09
AN2393
AN2393 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
AN2393 Type     PID      Designation          North   East   Ellip
AN2393 -----
AN2393 NETWORK AN2393 LAVAPORT            1.88    1.63   5.94
AN2393 -----
AN2393
AN2393.This mark is at Calhoun Co (T97) Airport (T97)
AN2393
AN2393.The horizontal coordinates were established by GPS observations
AN2393.and adjusted by the National Geodetic Survey in February 2007.
AN2393
AN2393.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
AN2393.See National Readjustment for more information.
AN2393.The horizontal coordinates are valid at the epoch date displayed above.
AN2393.The epoch date for horizontal control is a decimal equivalence
AN2393.of Year/Month/Day.
AN2393
AN2393.The orthometric height was determined by GPS observations and a
AN2393.high-resolution geoid model.
AN2393
AN2393.GPS derived orthometric heights for airport stations designated as
AN2393.PACS or SACS are published to 2 decimal places. This maintains
AN2393.centimeter relative accuracy between the PACS and SACS. It does
AN2393.not indicate centimeter accuracy relative to other marks which are
AN2393.part of the NAVD 88 network.

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2/9/2011

DATASHEETS

AN2393

AN2393.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AN2393

AN2393.The Laplace correction was computed from DEFLEC09 derived deflections.

AN2393

AN2393.The ellipsoidal height was determined by GPS observations

AN2393.and is referenced to NAD 83.

AN2393

AN2393.The geoid height was determined by GEOID09.

AN2393

	North	East	Units	Scale Factor	Converg.
AN2393;SPC TXSC	- 4,093,045.154	826,608.425	MT	0.99993361	+1 08 08.7
AN2393;SPC TXSC	-13,428,598.98	2,711,964.47	sFT	0.99993361	+1 08 08.7
AN2393;UTM 14	- 3,171,696.909	726,581.293	MT	1.00023362	+1 06 43.4

AN2393

AN2393! - Elev Factor x Scale Factor = Combined Factor

AN2393!SPC TXSC - 1.00000299 x 0.99993361 = 0.99993660

AN2393!UTM 14 - 1.00000299 x 1.00023362 = 1.00023661

AN2393

	Primary Azimuth Mark	Grid Az
AN2393:SPC TXSC	- LAVAPORT AZ MK	329 52 51.6
AN2393:UTM 14	- LAVAPORT AZ MK	329 54 16.9

AN2393

AN2393 -----	PID	Reference Object	Distance	Geod. Az	
AN2393				dddmmss.s	
AN2393	AN2394	LAVAPORT AZ MK	APPROX. 0.7 KM	3310100.3	
AN2393 -----					

AN2393

AN2393 SUPERSEDED SURVEY CONTROL

AN2393

AN2393 ELLIP H (10/24/00) -19.019 (m)			GP()	4 2
AN2393 NAD 83(1993)- 28 39 09.37724 (N)	096 40 54.32032 (W)	AD()		B
AN2393 ELLIP H (02/20/96) -18.865 (m)			GP()	3 2
AN2393 NAD 83(1993)- 28 39 09.37650 (N)	096 40 54.32590 (W)	AD()		3
AN2393 ELLIP H (02/16/96) -18.829 (m)			GP()	5 1
AN2393 NAD 83(1986)- 28 39 09.38942 (N)	096 40 54.31150 (W)	AD()		3
AN2393 NAD 27 - 28 39 08.45375 (N)	096 40 53.40456 (W)	AD()		3
AN2393 NGVD 29 (12/08/88) 8.4 (m)	28.	(f)	GPS OBS	

AN2393

AN2393.Superseeded values are not recommended for survey control.

AN2393.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AN2393.[See file dsdata.txt](#) to determine how the superseded data were derived.

AN2393

AN2393_U.S. NATIONAL GRID SPATIAL ADDRESS: 14RQS2658171696(NAD 83)

AN2393_MARKER: I = METAL ROD

AN2393_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

AN2393_SP_SET: STAINLESS STEEL ROD IN SLEEVE

AN2393_STAMPING: LAVAPORT 1987

AN2393_MARK LOGO: NGS

AN2393_PROJECTION: FLUSH

AN2393_MAGNETIC: N = NO MAGNETIC MATERIAL

AN2393_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AN2393_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AN2393+SATELLITE: SATELLITE OBSERVATIONS - February 07, 2008

AN2393_ROD/PIPE-DEPTH: 9.0 meters

AN2393_SLEEVE-DEPTH : 0.91 meters

AN2393

	HISTORY	Date	Condition	Report By
AN2393	HISTORY	- 1987	MONUMENTED	NGS
AN2393	HISTORY	- 19880525	GOOD	
AN2393	HISTORY	- 19950125	GOOD	NGS
AN2393	HISTORY	- 19980725	GOOD	USPSQD
AN2393	HISTORY	- 20070618	GOOD	INDIV
AN2393	HISTORY	- 20080207	GOOD	GEOMET

AN2393

STATION DESCRIPTION

AN2393

AN2393'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987

AN2393'THE STATION IS LOCATED ABOUT 6 KM (3.75 MI) NORTHWEST OF PORT LAVACA

AN2393'AT THE PORT LAVACA-CALHOUN COUNTY AIRPORT. OWNERSHIP-- CALHOUN

AN2393'COUNTY C/O WALTER RAWLINGS, MANAGER, CALHOUN COUNTY COURTHOUSE,

AN2393'PORTLAVACA TX. TELEPHONE NUMBER IS 512-552-2933.

AN2393'TO REACH THE STATION FROM THE JUNCTION OF US HIGHWAY 35 AND FARM ROAD

AN2393'1090 AT PORT LAVACA. GO NORTH ON FARM ROAD 1090 FOR 4.3 KM (2.65 MI)

AN2393'TO FARM ROAD 3084. TURN LEFT ON FARM ROAD 3084 FOR 1.9 KM (1.20 MI)

AN2393'TO THE AIRPORT ENTRANCE ROAD ON THE RIGHT. TURN RIGHT, NORTHWEST ON

AN2393'THE ENTRANCE ROAD FOR 0.8 KM (0.50 MI) TO THE ADMINISTRATION

AN2393'BUILDING. GO NORTH, FROM THE ADMINISTRATION BUILDING ACROSS THE

AN2393'APRON, FOR ABOUT 90 M (295.3 FT) TO THE STATION ON THE RIGHT,

AN2393'BETWEEN THE APRON AND THE TAXIWAY.

AN2393'THE STATION IS SET 35.4 M (116.1 FT) SOUTHWEST OF THE TAXIWAY AND

AN2393'16.6M (54.5 FT) SOUTHEAST OF THE APRON - TAXIWAY CONNECTOR.

AN2393'ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.

AN2393'DESCRIBED BY B.L.L.

AN2393

STATION RECOVERY (1988)

AN2393

AN2393'RECOVERED 1988

AN2393'RECOVERED IN GOOD CONDITION.

AN2393

STATION RECOVERY (1995)

AN2393

AN2393'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (JDR)

AN2393'THE STATION IS LOCATED ABOUT 6.0 KM (3.70 MI) NORTHWEST OF PORT LAVACA

AN2393'AT THE CALHOUN COUNTY AIRPORT. OWNERSHIP--CALHOUN COUNTY. FOR ACCESS

AN2393'CONTACT MR WALTER RAWLINGS, AIRPORT MANAGER, CALHOUN COUNTY AIRPORT,

AN2393'P.O. BOX 676, PORT LAVACA, TX 77979. OFFICE PHONE (512) 552-2933,

AN2393'HOMA (512) 552-6207. TO REACH THE STATION FROM THE JUNCTION OF U.S.

AN2393'HIGHWAY 35 AND FARM ROAD 1090 AT PORT LAVACA. GO NORTHERLY ON FARM

AN2393'ROAD 1090 FOR 4.3 KM (2.65 MI) TO FARM ROAD 3084. TURN LEFT, WESTERLY

AN2393'ON FARM ROAD 3084 FOR 1.9 KM (1.20 MI) TO THE AIRPORT ENTRANCE ROAD ON

AN2393'THE RIGHT. TURN RIGHT, NORTHWESTERLY ON ENTRANCE ROAD FOR 0.8 KM

AN2393'(0.50 MI) TO THE AIRPORT ADMINISTRATION BUILDING ON THE RIGHT.

AN2393'PROCEED ACROSS THE APRON FOR ABOUT 90 M (295.3 FT) TO THE STATION ON

AN2393'THE RIGHT. THE STATION IS LOCATED 35.4 M (116.1 FT) SOUTHWEST OF THE

AN2393'PARALLEL TAXIWAY AND 16.6 M (54.5 FT) SOUTHEAST OF THE CENTERLINE OF

AN2393'THE CONNECTING TAXIWAY. THIS IS A PAC STATION.

AN2393

STATION RECOVERY (1998)

AN2393

AN2393'RECOVERY NOTE BY US POWER SQUADRON 1998

AN2393'RECOVERED IN GOOD CONDITION.

AN2393

2/9/2011

AN2393

AN2393

AN2393'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (JRA)

AN2393'RECOVERED IN GOOD CONDITION.

AN2393

AN2393

STATION RECOVERY (2008)

AN2393

AN2393'RECOVERY NOTE BY GEOMETRICS GPS INCORPORATED 2008 (DG)

AN2393'RECOVERED IN GOOD CONDITION

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

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DATABASE = , PROGRAM = datasheet, VERSION = 7.85
1      National Geodetic Survey, Retrieval Date = FEBRUARY 9, 2011
DL7624 ****
DL7624 CORS      - This is a GPS Continuously Operating Reference Station.
DL7624 DESIGNATION - PORT LAVACA CORS ARP
DL7624 CORS_ID   - TXPV
DL7624 PID       - DL7624
DL7624 STATE/COUNTY- TX/CALHOUN
DL7624 USGS QUAD - POINT COMFORT (1995)
DL7624
DL7624          *CURRENT SURVEY CONTROL
DL7624
DL7624* NAD 83(CORS) - 28 38 17.42370(N)    096 37 06.66181(W)      ADJUSTED
DL7624* NAVD 88     -                      ** (meters)           ** (feet)
DL7624
DL7624 EPOCH DATE - 2002.00
DL7624 X          - -645,694.341 (meters)           COMP
DL7624 Y          - -5,564,820.725 (meters)           COMP
DL7624 Z          - 3,038,758.508 (meters)           COMP
DL7624 ELLIP HEIGHT- -15.241 (meters)           (05/??/10) ADJUSTED
DL7624 GEOID HEIGHT- -27.19 (meters)           GEOID09
DL7624 HORZ ORDER - SPECIAL (CORS)
DL7624 ELLP ORDER  - SPECIAL (CORS)
DL7624
DL7624 ITRF positions are available for this station.
DL7624 The coordinates were established by GPS observations
DL7624 and adjusted by the National Geodetic Survey in May 2010.
DL7624 The coordinates are valid at the epoch date displayed above.
DL7624 The epoch date for horizontal control is a decimal equivalence
DL7624 of Year/Month/Day.
DL7624
DL7624
DL7624 The PID for the CORS L1 Phase Center is DL7625.
DL7624
DL7624 The XYZ, and position/ellipsoidal ht. are equivalent.
DL7624
DL7624 The ellipsoidal height was determined by GPS observations
DL7624 and is referenced to NAD 83.
DL7624
DL7624 The geoid height was determined by GEOID09.
DL7624
DL7624;SPC TXSC      North          East          Units Scale Factor Converg.
DL7624;SPC TXSC      - 4,091,570.352  832,821.728  MT  0.99993661  +1 10 00.2
DL7624;SPC TXSC      -13,423,760.40   2,732,349.29   SFT  0.99993661  +1 10 00.2
DL7624
DL7624!              - Elev Factor x Scale Factor = Combined Factor
DL7624!SPC TXSC      - 1.00000239 x 0.99993661 = 0.99993900

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2/9/2011

DATASHEETS

DL7624

DL7624

DL7624

DL7624.No superseded survey control is available for this station.

DL7624

DL7624_U.S. NATIONAL GRID SPATIAL ADDRESS: 14RQS3279570219(NAD 83)

DL7624_MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DL7624

DL7624 STATION DESCRIPTION

DL7624

DL7624'DESCRIBED BY NATIONAL GEODETIC SURVEY 2010

DL7624'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DL7624'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DL7624'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DL7624' FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG

DL7624' HTTP://WWW.NGS.NOAA.GOV/CORS.

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

DATABASE = , PROGRAM = datasheet, VERSION = 7.85
1      National Geodetic Survey, Retrieval Date = FEBRUARY 9, 2011
DG9806 ****
DG9806 CORS      - This is a GPS Continuously Operating Reference Station.
DG9806 DESIGNATION - VICTORIA CORS ARP
DG9806 CORS_ID   - TXVA
DG9806 PID       - DG9806
DG9806 STATE/COUNTY- TX/VICTORIA
DG9806 USGS QUAD - VICTORIA EAST (1995)
DG9806
DG9806          *CURRENT SURVEY CONTROL
DG9806
DG9806* NAD 83(CORS)- 28 50 05.73900(N)    096 54 34.52532(W)    ADJUSTED
DG9806* NAVD 88     -                      ** (meters)           ** (feet)
DG9806
DG9806 EPOCH DATE - 2002.00
DG9806 X           - -672,697.706 (meters)           COMP
DG9806 Y           - -5,551,083.546 (meters)           COMP
DG9806 Z           - 3,057,892.009 (meters)           COMP
DG9806 ELLIP HEIGHT- 11.101 (meters)           (04/??/05) ADJUSTED
DG9806 GEOID HEIGHT- -27.48 (meters)           GEOID09
DG9806 HORZ ORDER - SPECIAL (CORS)
DG9806 ELLP ORDER  - SPECIAL (CORS)
DG9806
DG9806 ITRF positions are available for this station.
DG9806 The coordinates were established by GPS observations
DG9806 and adjusted by the National Geodetic Survey in April 2005.
DG9806 The coordinates are valid at the epoch date displayed above.
DG9806 The epoch date for horizontal control is a decimal equivalence
DG9806 of Year/Month/Day.
DG9806
DG9806
DG9806 The PID for the CORS L1 Phase Center is DG9807.
DG9806
DG9806 The XYZ, and position/ellipsoidal ht. are equivalent.
DG9806
DG9806 The ellipsoidal height was determined by GPS observations
DG9806 and is referenced to NAD 83.
DG9806
DG9806 The geoid height was determined by GEOID09.
DG9806
DG9806;SPC TXSC      North          East          Units Scale Factor Converg.
DG9806;SPC TXSC      - 4,112,827.582  803,978.957  MT  0.99990105  +1 01 26.8
DG9806;SPC TXSC      -13,493,501.83   2,637,720.96   SFT  0.99990105  +1 01 26.8
DG9806
DG9806!              - Elev Factor  x  Scale Factor = Combined Factor
DG9806!SPC TXSC      - 0.99999826  x  0.99990105  =  0.99989931

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2/9/2011

DATASHEETS

DG9806

DG9806

DG9806

DG9806. No superseded survey control is available for this station.

DG9806

DG9806_U.S. NATIONAL GRID SPATIAL ADDRESS: 14RQS0395291492 (NAD 83)

DG9806_MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DG9806

DG9806 STATION DESCRIPTION

DG9806

DG9806'DESCRIBED BY NATIONAL GEODETIC SURVEY 2005

DG9806'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DG9806'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DG9806'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DG9806' FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG

DG9806' HTTP://WWW.NGS.NOAA.GOV/CORS.

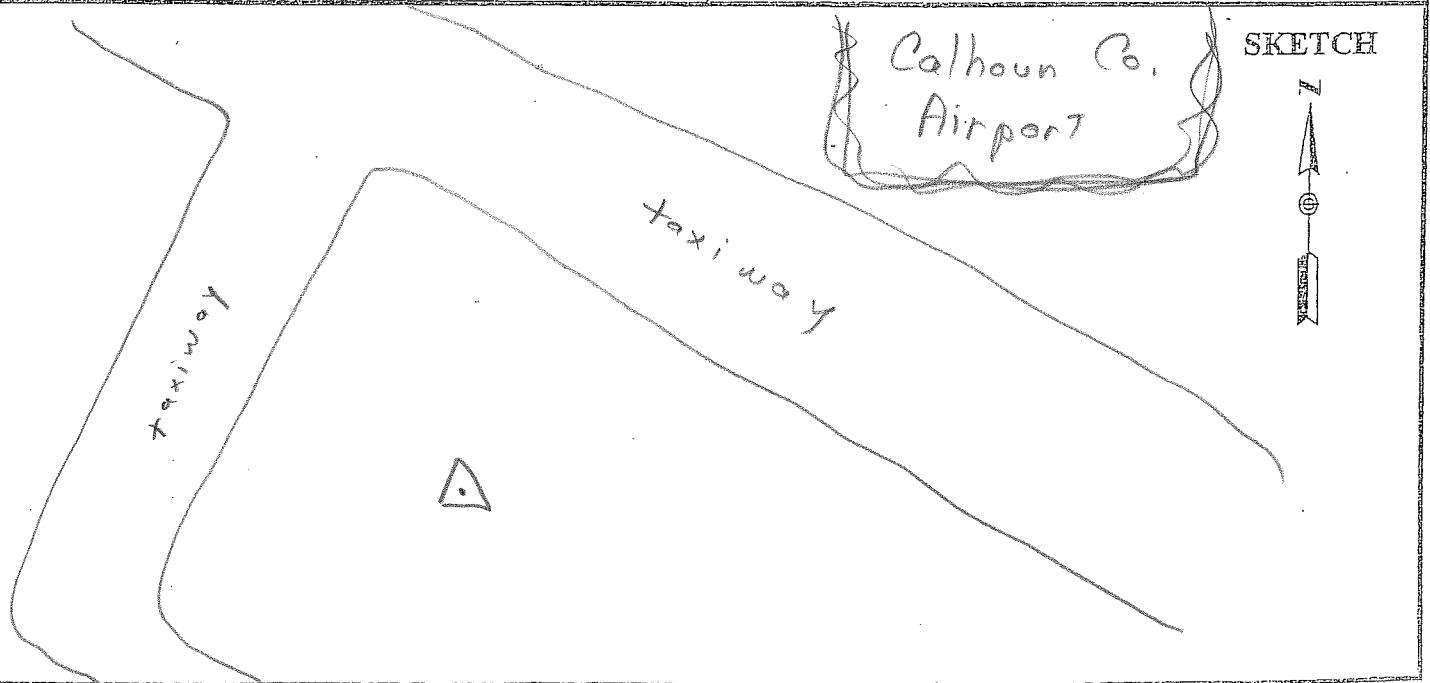
*** retrieval complete.

Elapsed Time = 00:00:00

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CONTROL

PROJECT	1- 101205 - Calhoun		SITE NUMBER	1
OPERATOR	MB			
DATE	12.9.10		SITE NAME	LAVAPORT
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	8:43 a.		MEMORY CARD	731
STOP			BATTERY NO.	CVS
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: none	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS: pin in hand hole	
	1.364			
		1.724		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES		
943	1.7	10/10		



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base

PROJECT	1-101205/Colhoun		SITE NUMBER	1
OPERATOR	M3		SITE NAME	100
DATE	12.9.10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	10:59 a.		MEMORY CARD	603
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 <u>500</u>	0.441 0.389 <u>0.360</u>	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS set at 6" nail on E. side yellow pipe fence $\pm 1'$ E. of fence; $\pm 22'$ S. of N. end fence; $\pm 10'$ W. of plow line; and $\pm 36'$ N. of S. end yellow fence	
1.297			1657	
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS 28° 31' 03.5' 96° 47' 06.0	
TIME	GDOPO	SATELLITES		
1159	4.5			
			SKETCH	

AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

✓PT

PROJECT	1-101205 / Calhoun	SITE NUMBER	/
OPERATOR	MG	SITE NAME	/
DATE	12-9-10		

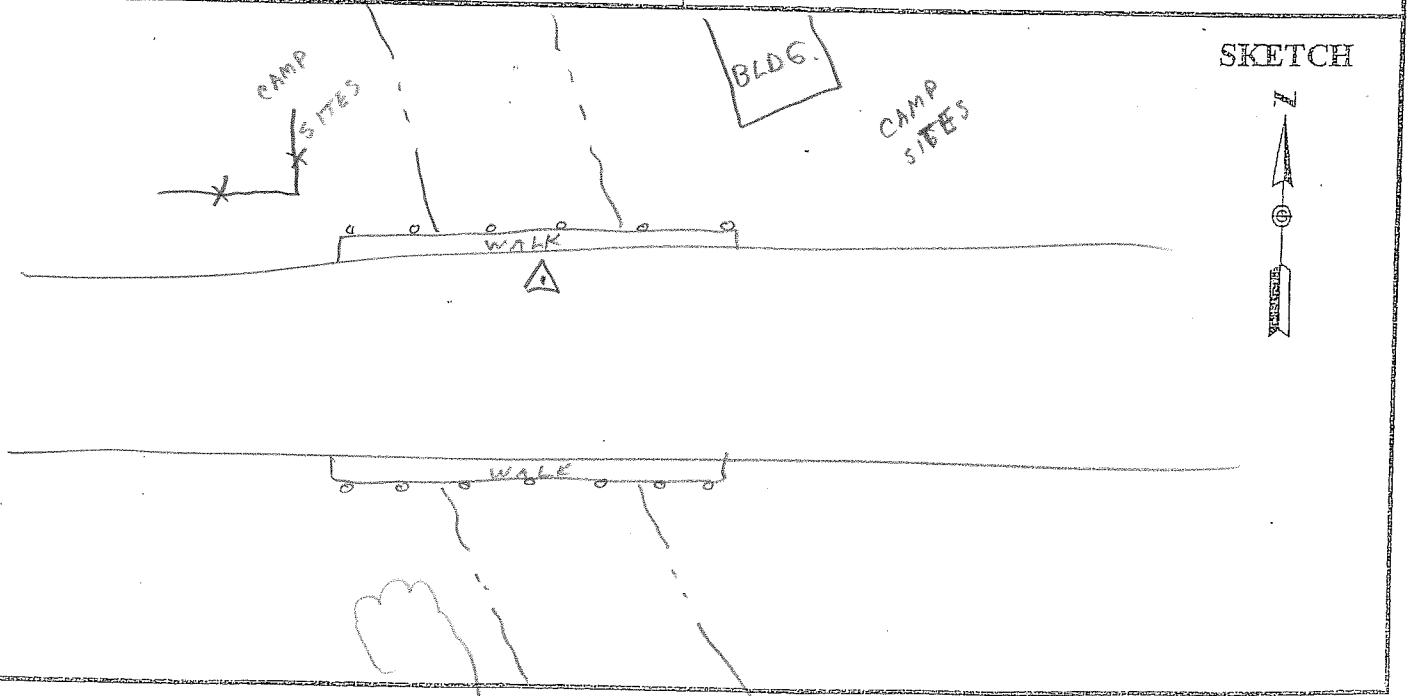
TRACKING TIMES (LOCAL) MEASURE	✓	SENSOR TYPE	500	9500	399	299
START	11:25 a.	MEMORY CARD	732			
STOP	11:59 a.	BATTERY NO.	CB			
		CONTROLLER NO.				
		SENSOR NO.				

SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	none
	399E/9500	0.389		
	500	0.360		

HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS
	1.354		N shoulder
			at bridge
		1.714	

SATELLITE OBSERVATIONS	WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
------------------------	---

TIME	GDOP	SATELLITES
1225	5.6	8/8
1259		



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PROJECT 1-101205 / Calhoun
OPERATOR MO
DATE 12.9.10

SITE NUMBER 2
SITE NAME 2

TRACKING TIMES (LOCAL) MEASURE ✓
START 12:04 p
STOP 12:38 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 732
BATTERY NO. CB
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.281 _____

STATION DESCRIPTIONS E. shoulder
@ & Drive E.

1641

SATELLITE OBSERVATIONS

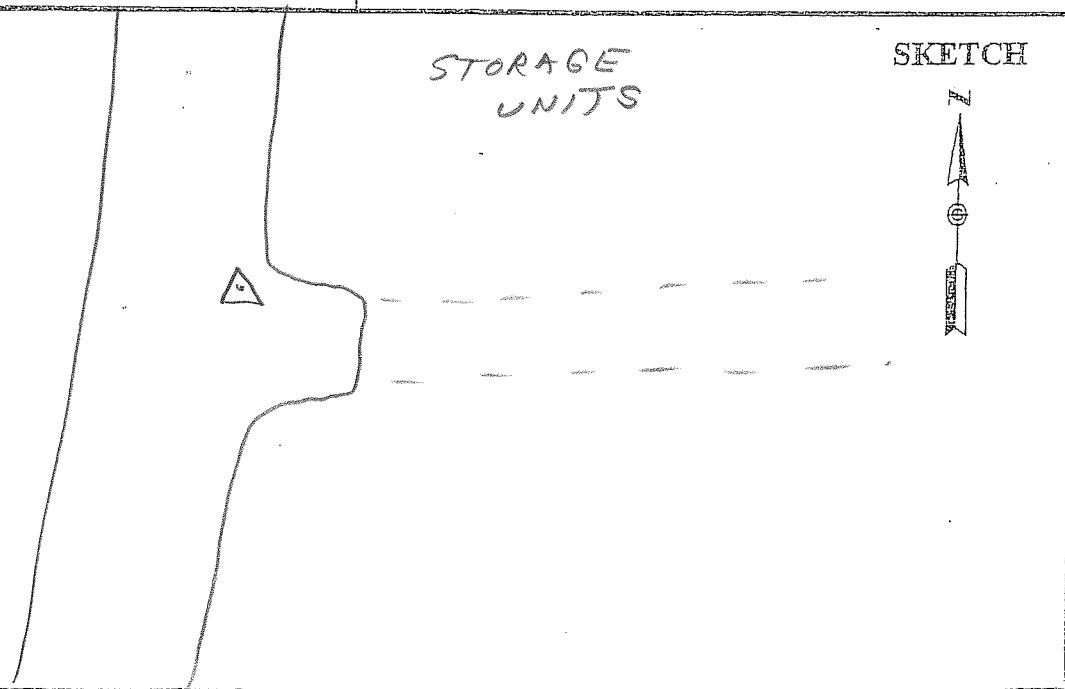
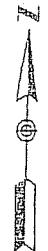
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1304	1.9	8/8
1338		

STORAGE
UNITS

STORAGE
UNITS

SKETCH



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PROJECT 1-101205/Colhoun
OPERATOR MB
DATE 12.9.10

SITE NUMBER 3
SITE NAME 3

TRACKING TIMES (LOCAL) MEASURE ✓
START 12:44 p
STOP 1:16 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 232
BATTERY NO. CD
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.340 1.700

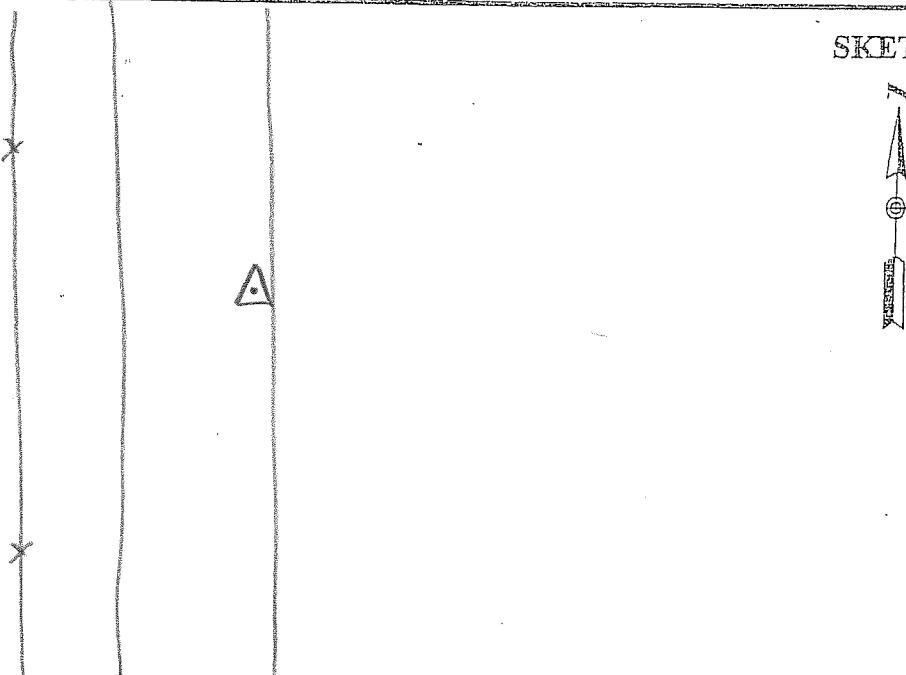
STATION DESCRIPTIONS E. shoulder

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOPO	SATELLITES
1344	3.9	7/7
1416		

SKETCH



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PROJECT 1-101205 / Calhoun
OPERATOR MB
DATE 12-9-10

SITE NUMBER 4
SITE NAME 4

TRACKING TIMES (LOCAL) MEASURE ✓
START 1:26p
STOP 1:56p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 732
BATTERY NO. CB
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.372 1.672
1.694

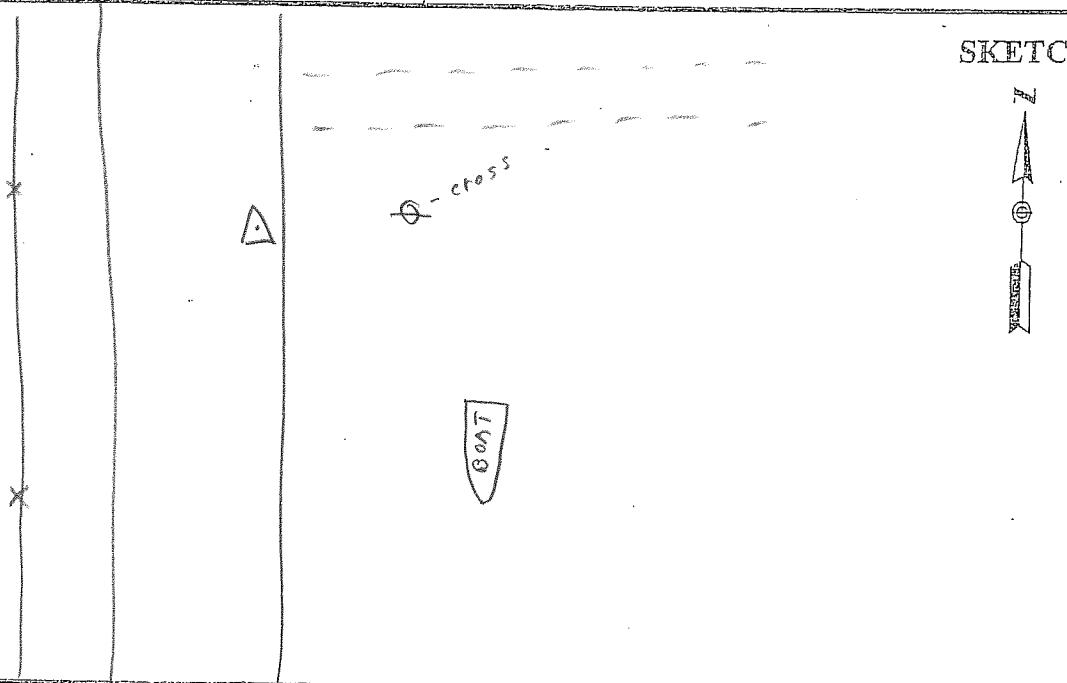
STATION DESCRIPTIONS E. shoulder

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOPO	SATELLITES
1426	3.4	5/5
1456		

SKETCH



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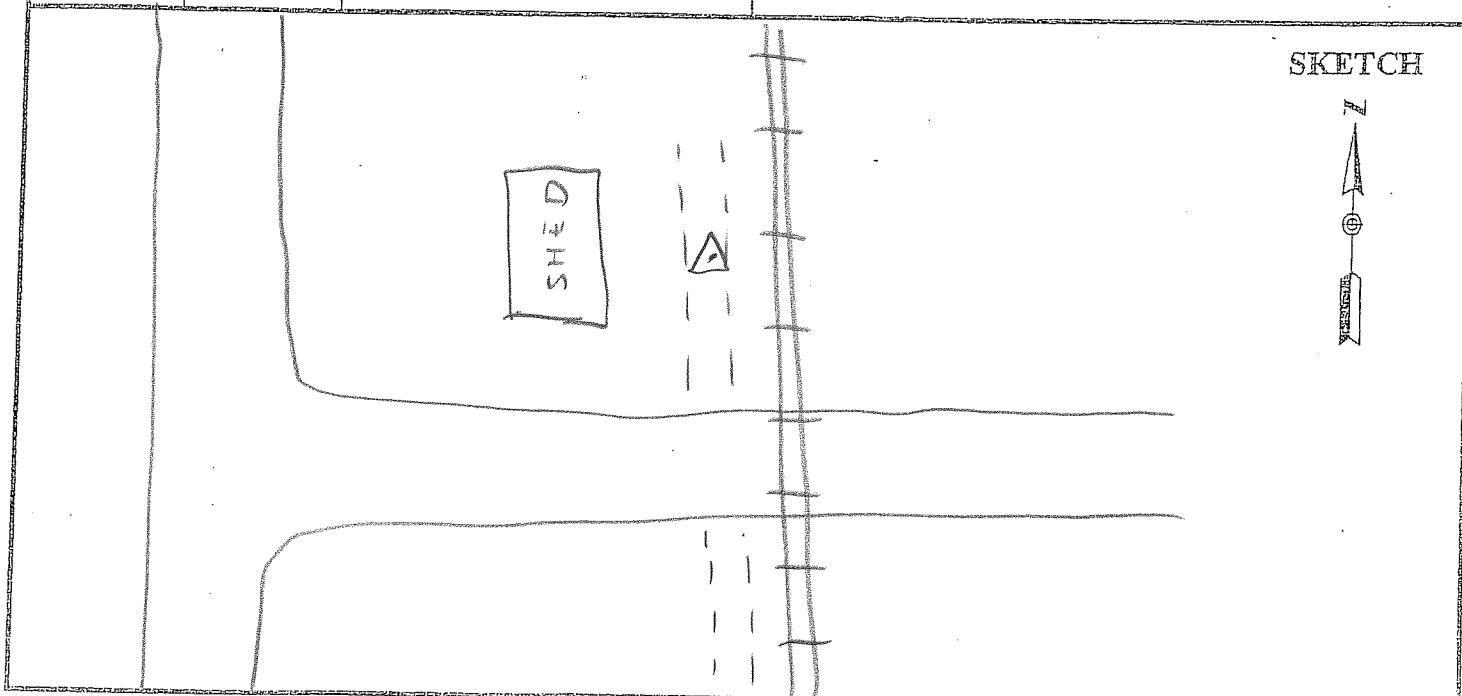
✓ PT

PROJECT	1-101205 / Calhoun	SITE NUMBER	5
OPERATOR	M9	SITE NAME	5
DATE	12.9.10		

TRACKING TIMES (LOCAL) MEASURE	✓	SENSOR TYPE	500	9500	399	299
START	2:04 p	MEMORY CARD	732			
STOP	2:31 p	BATTERY NO.	C16			
		CONTROLLER NO.				
		SENSOR NO.				

SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	in Drive W. side of tracks
	1.314	1.674		

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES	
1504	2.0	9/9	
1531			



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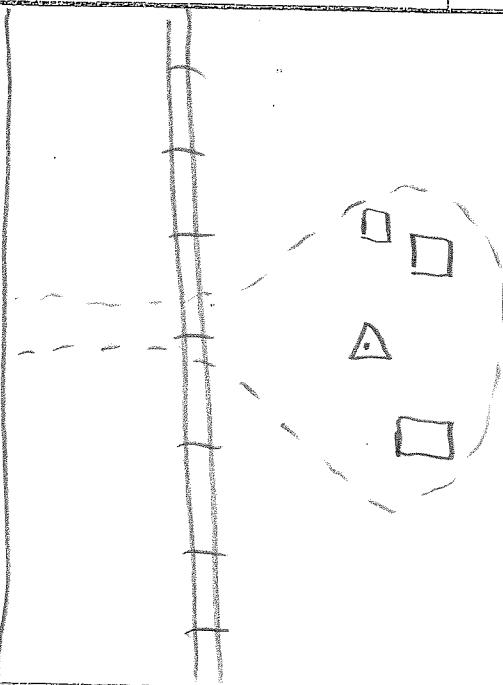
1/PT

PROJECT	1-101205/Cathoun	SITE NUMBER	6
OPERATOR	MG	SITE NAME	6
DATE	12.9.10		

TRACKING TIMES (LOCAL) MEASURE	/	SENSOR TYPE	500	9500	399	299
START	2:37 p	MEMORY CARD	732			
STOP	3:04 p	BATTERY NO.	CB			
		CONTROLLER NO.				
		SENSOR NO.				

SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	none
	399E/9500	0.389		
	(500)	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	center of gravel area
	1.397	1757		

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES	
1537	2.3	10/10	
1604			



SKETCH

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Base Control

PROJECT	1-101205 / Calhoun		
OPERATOR	M3		
DATE	12-10-10		
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>		SENSOR TYPE 500 9500 399 299	
START	7:24 a.		
STOP			
SENSOR CONSTANT 299/399 399E/9500 500		MEMORY CARD 731 BATTERY NO. C18 CONTROLLER NO. SENSOR NO.	
HEIGHT READINGS MTS 1.365		OBSTRUCTIONS:	
		STATION DESCRIPTIONS	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES	
824	2.2	7/7	

SKETCH

see
previous



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PROJECT	I-101205/calhoun			SITE NUMBER	1			
OPERATOR	MP			SITE NAME	100			
DATE	12.10.10							
TRACKING TIMES (LOCAL) MEASURE ✓				SENSOR TYPE	500	9500	399	299
START	8:01			MEMORY CARD	603			
STOP				BATTERY NO.	CB			
				CONTROLLER NO.				
				SENSOR NO.				
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 (500) (0.360)				OBSTRUCTIONS:				
HEIGHT READINGS MTS FT 1.330 1.690				STATION DESCRIPTIONS				
SATELLITE OBSERVATIONS				WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES						
901	1.5	9/9						

SKETCH



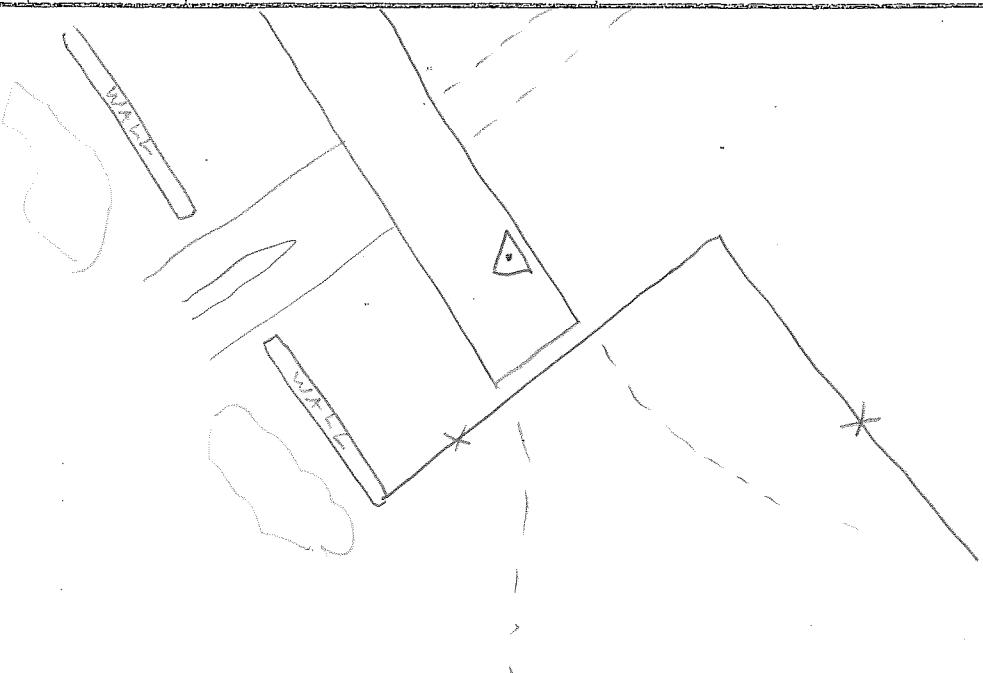
See
previous

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✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	1
OPERATOR	MB		SITE NAME	7
DATE	12-10-10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	8:34		MEMORY CARD	732
STOP	9:21		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 <u>500</u>	0.441 0.389 <u>0.360</u>	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	E. side road
	<u>1.367</u>			
		<u>1.727</u>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES		
9:34	1.9	9/9		
10:21				

SKETCH

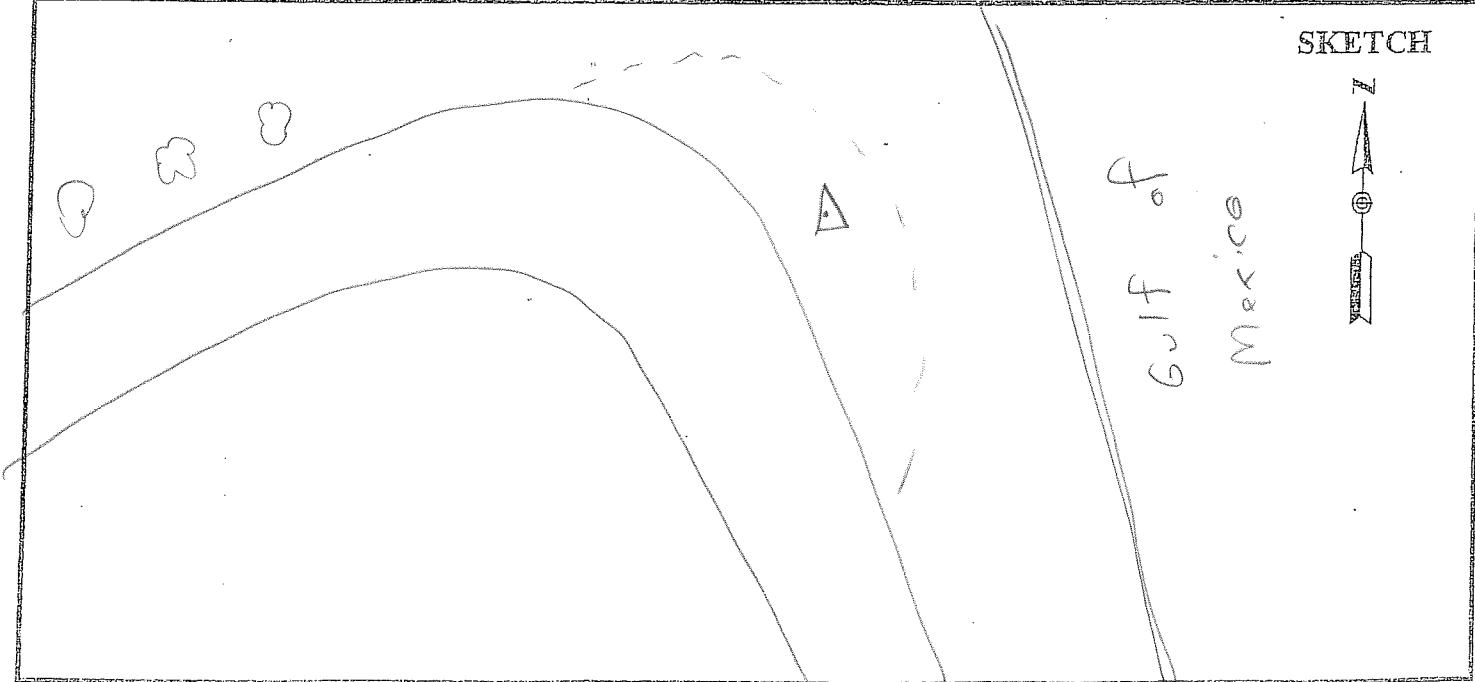


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PROJECT	1-101205 / Calhoun		SITE NUMBER	2
OPERATOR	MQ		SITE NAME	8
DATE	12.10.10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	9:28 a.		MEMORY CARD	732
STOP	10:15 a.		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.339 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	gravel area
	<u>1.324</u>			
		1.684		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1028	2.4	8/8		
1115				

SKETCH



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✓ PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	3			
OPERATOR	M3		SITE NAME	9			
DATE	12-10-10						
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500	9500	399	299
START	10:35 a.		MEMORY CARD	732			
STOP	11:15 a.		BATTERY NO.	CB			
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	none			
	399E/9500	0.389					
	500	0.360					
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	N shoulder			
	1.362						
		1722					
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOPO	SATELLITES					
1135	1.9	9/9					
1215							
✓ SKETCH							

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✓PT

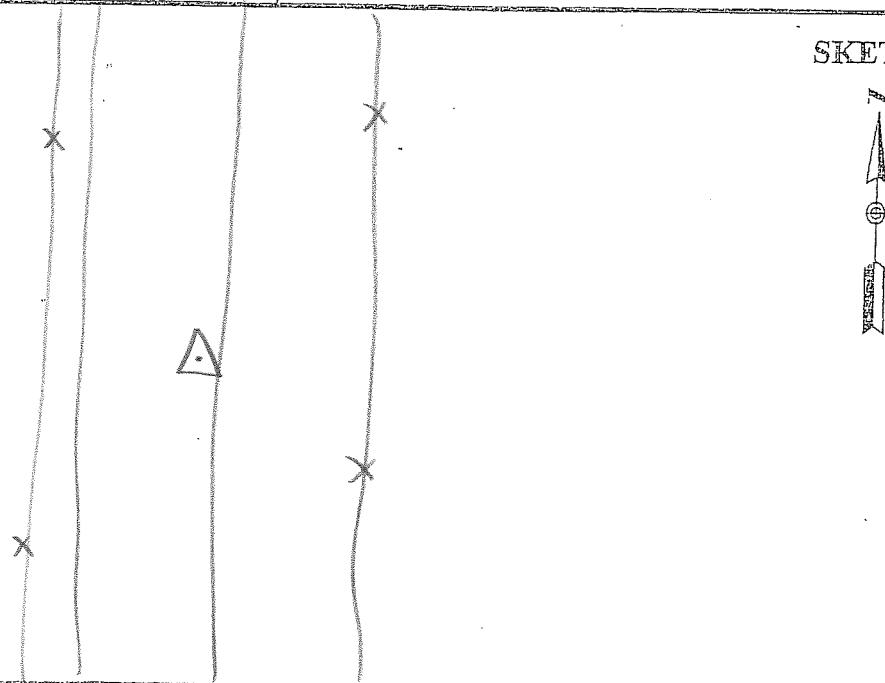
PROJECT	1-101265 / Calheun	SITE NUMBER	4
OPERATOR	MB	SITE NAME	10
DATE	12-10-10		

TRACKING TIMES (LOCAL) MEASURE	✓	SENSOR TYPE	500	9500	399	299
START	11:39 a.	MEMORY CARD	732			
STOP	12:20 p	BATTERY NO.	CB			
		CONTROLLER NO.				
		SENSOR NO.				

SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	None
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	E. side road
	1.338			
		1.698		

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES	
1239	1.9	9/9	
1320			

SKETCH



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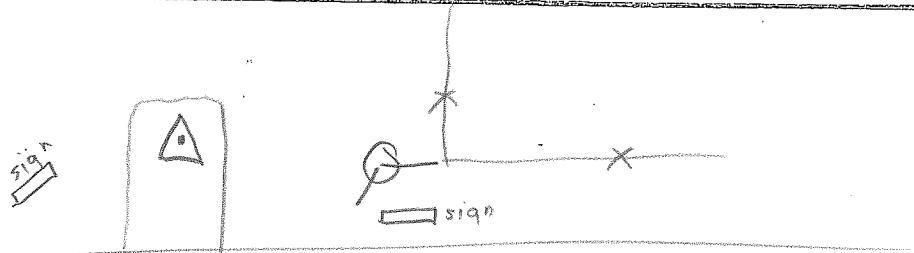
✓PT

PROJECT	1-lot205/Cathourn	SITE NUMBER	5
OPERATOR	MG	SITE NAME	11
DATE	12-10-10		

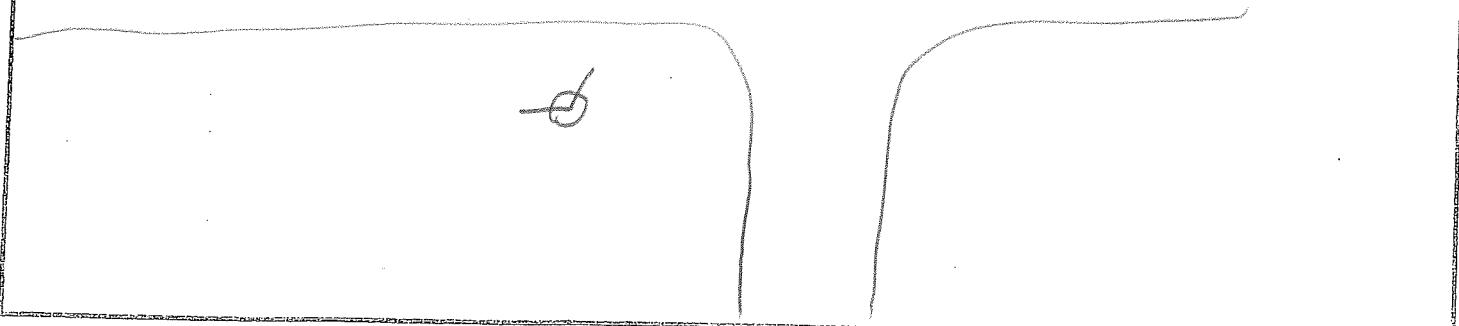
TRACKING TIMES (LOCAL) MEASURE	✓	SENSOR TYPE	500	9500	399	299
START	12:30 p	MEMORY CARD	732			
STOP	1:05 p	BATTERY NO.	C13			
		CONTROLLER NO.				
		SENSOR NO.				

SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	pole E
	399E/9500	0.389		
	(500)	(0.360)		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	in entrance
	1.388			
		1.742		

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDO	SATELLITES	
1330	6.7	4/6	
1405			



SKETCH



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✓ PT

PROJECT	1-161205 / Calhoun		SITE NUMBER	6
OPERATOR	MB		SITE NAME	12
DATE	12.10.10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	1:11 p		MEMORY CARD	732
STOP	1:45 p		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	N. shoulder,
	1.317	1.677		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1411	2.1	8/8		
1445				

brush

SKETCH



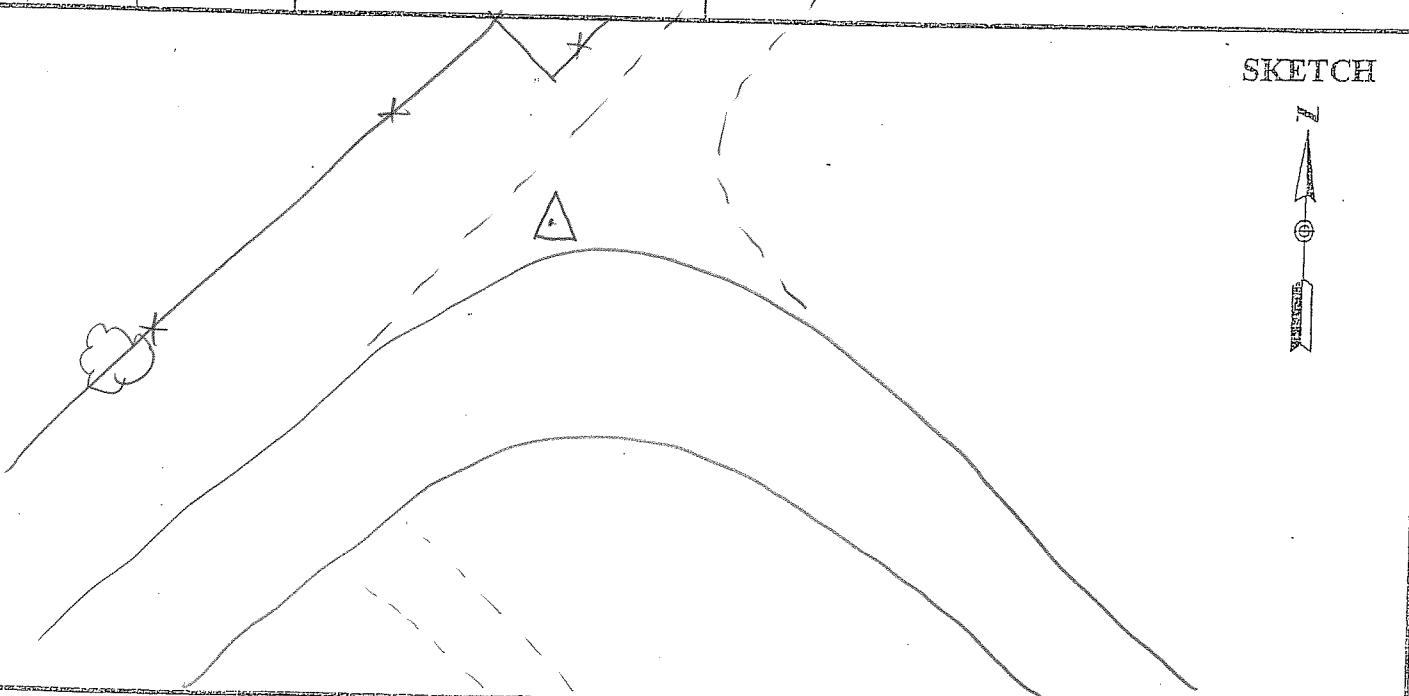
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AERO-METRIC, INC. 4020 TECHNOLOGY PARKWAY SHEBOYGAN, WISCONSIN 53083							
PROJECT	1-101205 / Calhoun			SITE NUMBER	7		
OPERATOR	M3			SITE NAME	13		
DATE	12-10-10						
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>				SENSOR TYPE	500	9500	399
START	2:11 p			MEMORY CARD	299		
STOP	2:48 p			BATTERY NO.	732		
				CONTROLLER NO.	CB		
				SENSOR NO.			
SENSOR CONSTANT	299/399	0.441		OBSTRUCTIONS:	None		
	399E/9500	0.389					
	500	0.360					
HEIGHT READINGS	MTS	FT		STATION DESCRIPTIONS	set 6" nail		
	1.278						
			1632				
SATELLITE OBSERVATIONS				WEATHER CONDITIONS/IMPORTANT OBSERVATIONS			
TIME	GDO	SATELLITES		28	23	25.3	
1511	2.0	10/10		96	42	27.6	
1548							
0 0 short wooden 0 0 posts 0 0 0 0 0 0 0 ----- 0 0 0 0 0 0 0				SKETCH 			

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✓ PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	8
OPERATOR	M9		SITE NAME	14
DATE	12-10-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	3:10 p		MEMORY CARD	732
STOP	3:38 p		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	N. side of curve in road
	1.355	1.715		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1610	1.9	9/9		
1638				



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Base Control

PROJECT	1-101205 / Calhoun		SITE NUMBER	/
OPERATOR	MB		SITE NAME	LAVAPORT
DATE	12-11-10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	7:19		MEMORY CARD	603
STOP			BATTERY NO.	CD
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389 500	OBSTRUCTIONS:	
HEIGHT READINGS MTS FT			STATION DESCRIPTIONS	
1.365				
1.725				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
819	2.1	8/8		

SKETCH



see
previous

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Base

PROJECT	1-101295 / Calhoun						
OPERATOR	MB		SITE NUMBER 1				
DATE	12-11-10		SITE NAME 100				
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE 500 9500 399 299 MEMORY CARD 734 BATTERY NO. CB CONTROLLER NO. SENSOR NO.				
START 7:43 a. STOP							
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:				
HEIGHT READINGS MTS FT 1.303 _____ 1.663			STATION DESCRIPTIONS				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
843	2.6	6/6					

SKETCH

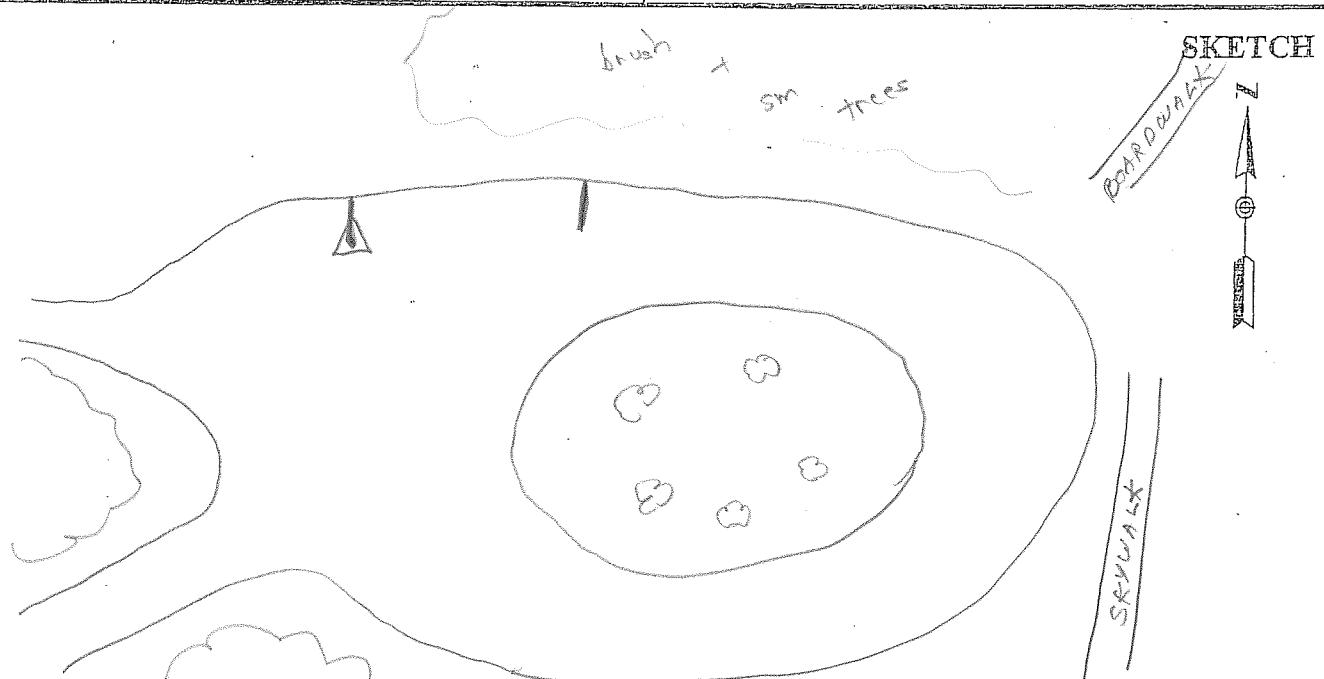


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BASE

PROJECT	1-104205/Cathleen		SITE NUMBER	1
OPERATOR	MS		SITE NAME	15
DATE	12-11-10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	8: 43 a.		MEMORY CARD	732
STOP	9: 43 a.		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	tree SW
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	set PK @ S. tip of w most paint stripe
	<u>1.372</u>	<u>1732</u>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES	28° 15' 04.4" 96° 47' 23.2"	
143	1.8	7/9		
1043				



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PROJECT	1-101205/Calhoun		SITE NUMBER	2	
OPERATOR	NO		SITE NAME	16	
DATE	12-11-10				
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500	9500
START	10:22 a.		MEMORY CARD	732	
STOP	10:55 a.		BATTERY NO.	CB	
			CONTROLLER NO.		
			SENSOR NO.		
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	E. shoulder of bridge	
	1.300	1.660			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS		
TIME	GDOPO	SATELLITES			
1122	2.6	8/8			
1155					
			SKETCH 		

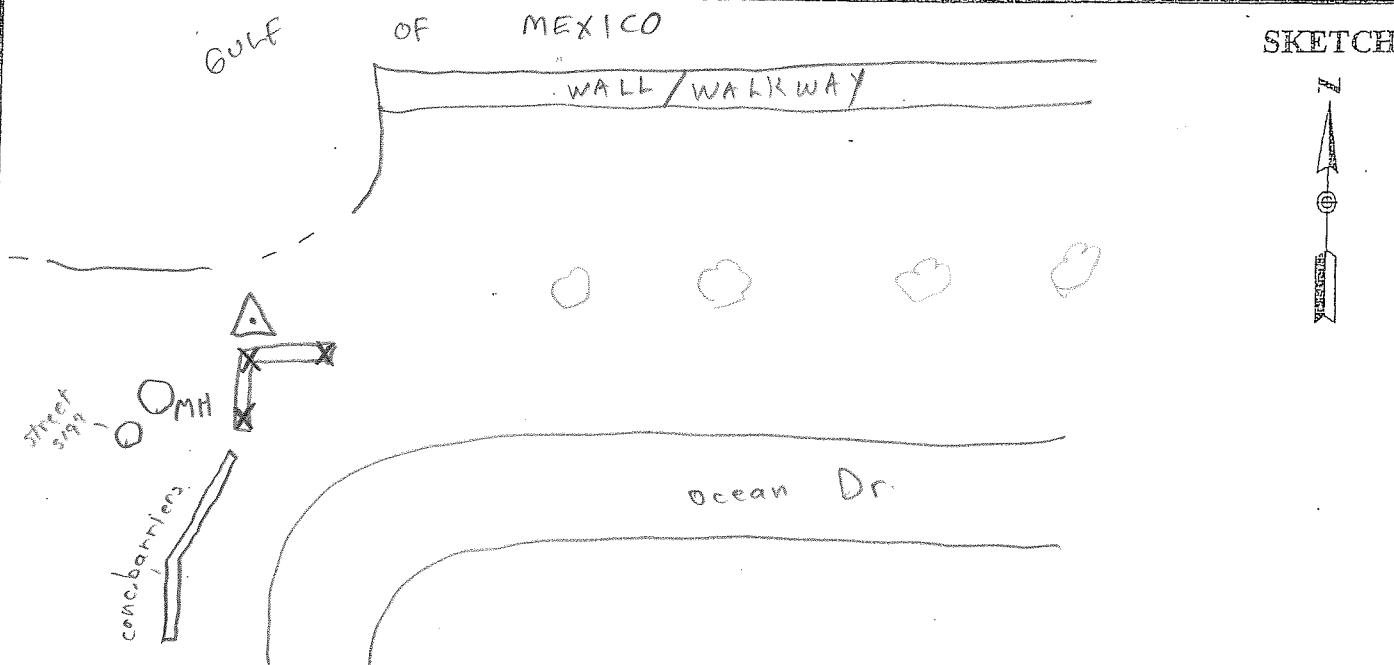
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SHEBOYGAN, WISCONSIN 53083

VPT

Base

PROJECT	1-101205 / Calhoun		SITE NUMBER	3
OPERATOR	MB		SITE NAME	17
DATE	12-11-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	11:53 a.		MEMORY CARD	732
STOP	12:26 p		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS Set 6" nail ± 2' NW of fence corner; ± 6' W. of E most fence post; ± 6' N. of S most fence post; ± 12' NE of street sign and ± 60' S. of w. end walk	
	1.153	1.513		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	28° 33' 41.3"	
1253	1.9	8/8	96° 32' 27.1"	
1326				



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AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	5
OPERATOR	MB		SITE NAME	19
DATE	12-11-10			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	1:25 p		MEMORY CARD	732
STOP	1:50 p		BATTERY NO.	C@
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	NW side of road
	1.352	1712		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1425	2.7	7/7		
1450				

SKETCH

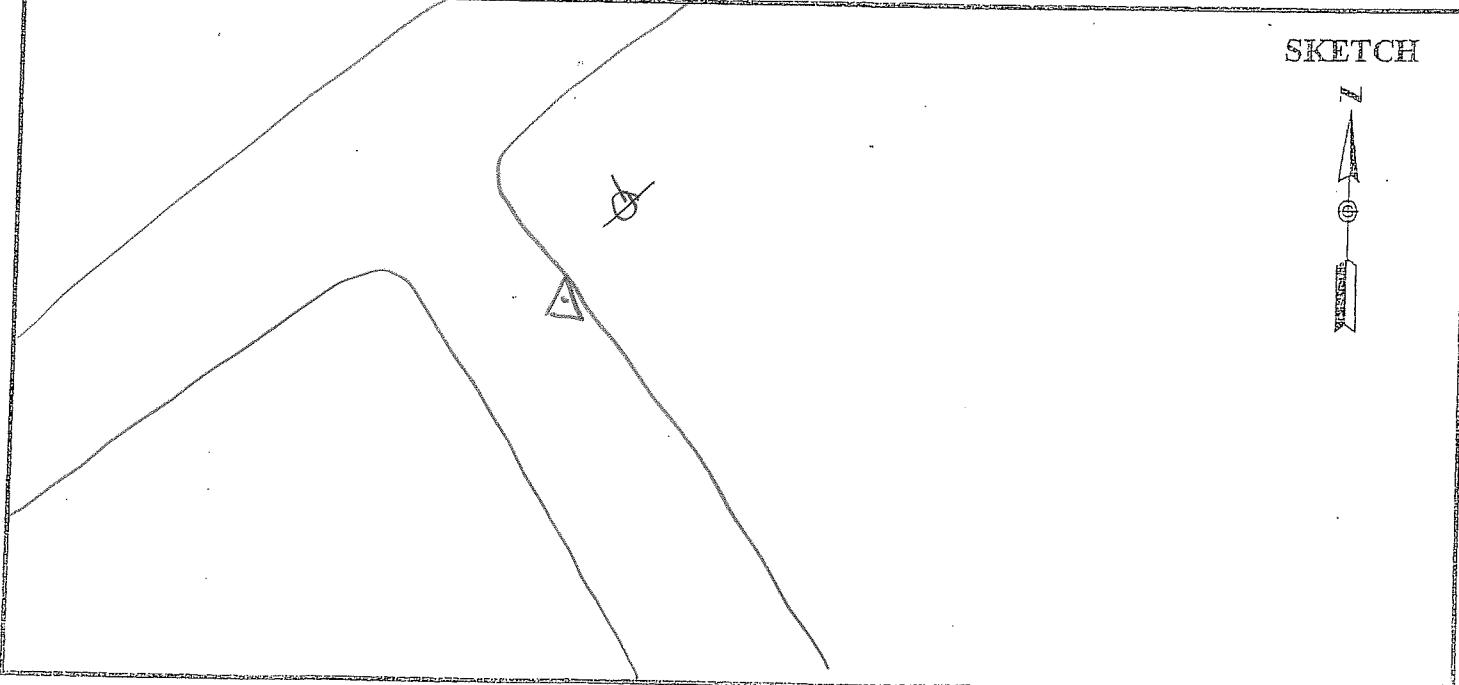


AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	6
OPERATOR	MB		SITE NAME	20
DATE	12-11-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	2:00 p		MEMORY CARD	732
STOP	2:24 p		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS: PP north	
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS NE side of road	
	1.378			
		1738		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1500	1.9	10/10		
1524				

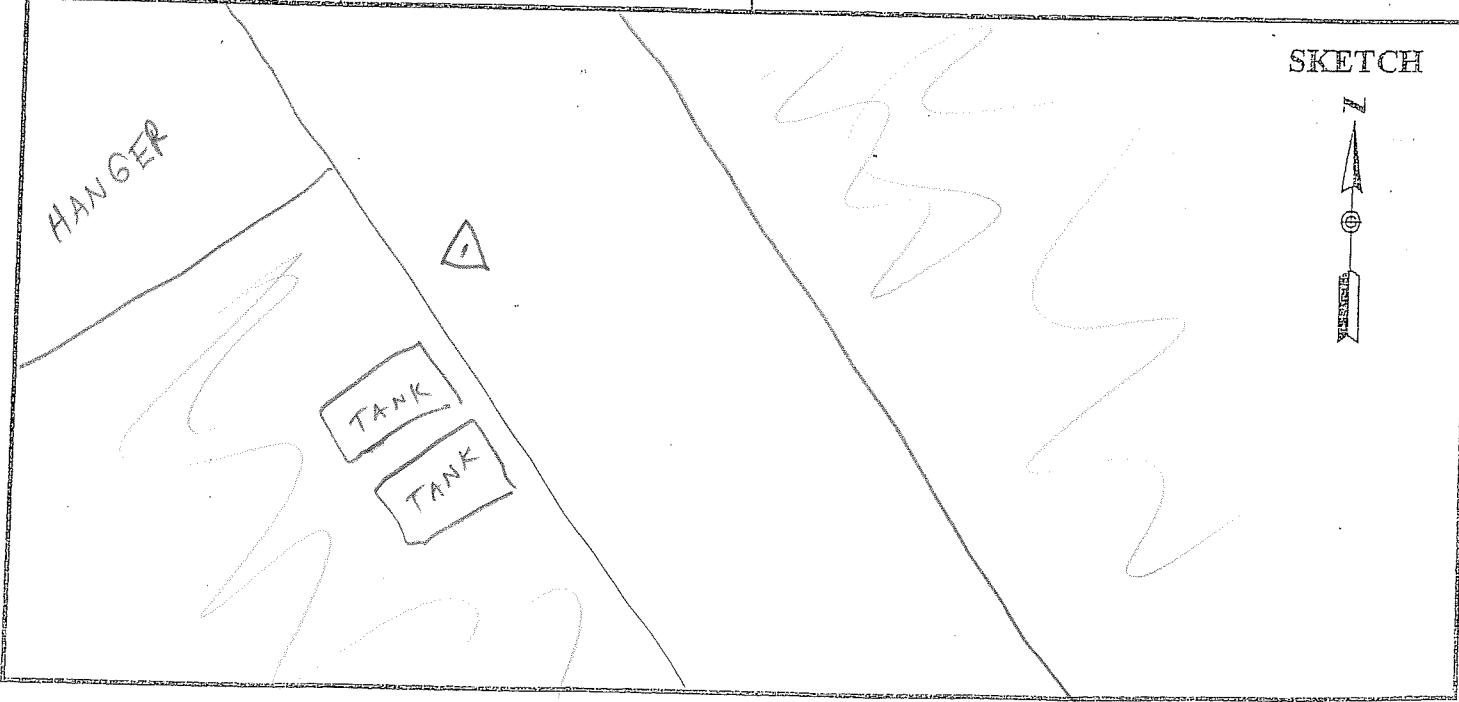
SKETCH



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✓ PT

PROJECT	1-101205/Caulkoun		SITE NUMBER	7
OPERATOR	MO		SITE NAME	21
DATE	12.11.10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	2:35 p		MEMORY CARD	732
STOP	3:01 p		BATTERY NO.	C13
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389	OBSTRUCTIONS:	bldg NW
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	on tarmac
	1.300			
		1.660		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1535	2.4	7/7		
1601				



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Base ✓ pt

PROJECT	1-101205 / Calhoun		SITE NUMBER	/
OPERATOR	MB		SITE NAME	17
DATE	10-17-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	7:45 a		MEMORY CARD	731
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389	OBSTRUCTIONS:	
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.163			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES		
845	1.7	10/10		

SKETCH

See
previous



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083 Base

PROJECT	1-101205 / Calhoun			SITE NUMBER	1
OPERATOR	MB			SITE NAME	LAVA PORT
DATE	12-17-10				
TRACKING TIMES (LOCAL) MEASURE ✓				SENSOR TYPE	500 9500 399 299
START	8:10			MEMORY CARD	603
STOP				BATTERY NO.	CB
				CONTROLLER NO.	
				SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389	0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT		STATION DESCRIPTIONS	
	1.353				
			1.713		
SATELLITE OBSERVATIONS				WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES			
910	2.0	8/8			

SKETCH

See
previous

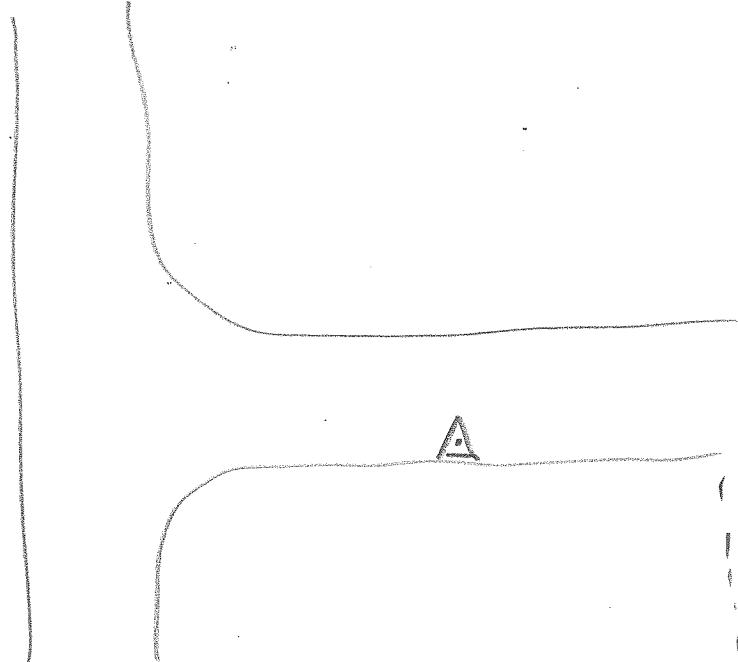


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✓ PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	1
OPERATOR	MB		SITE NAME	22
DATE	12.17.10			
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE	500 9500 399 299
START	8:23 a.		MEMORY CARD	732
STOP	8:52 a.		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	S. side road
	1.310			
		1.670		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
923	3.4	7/7		
952				

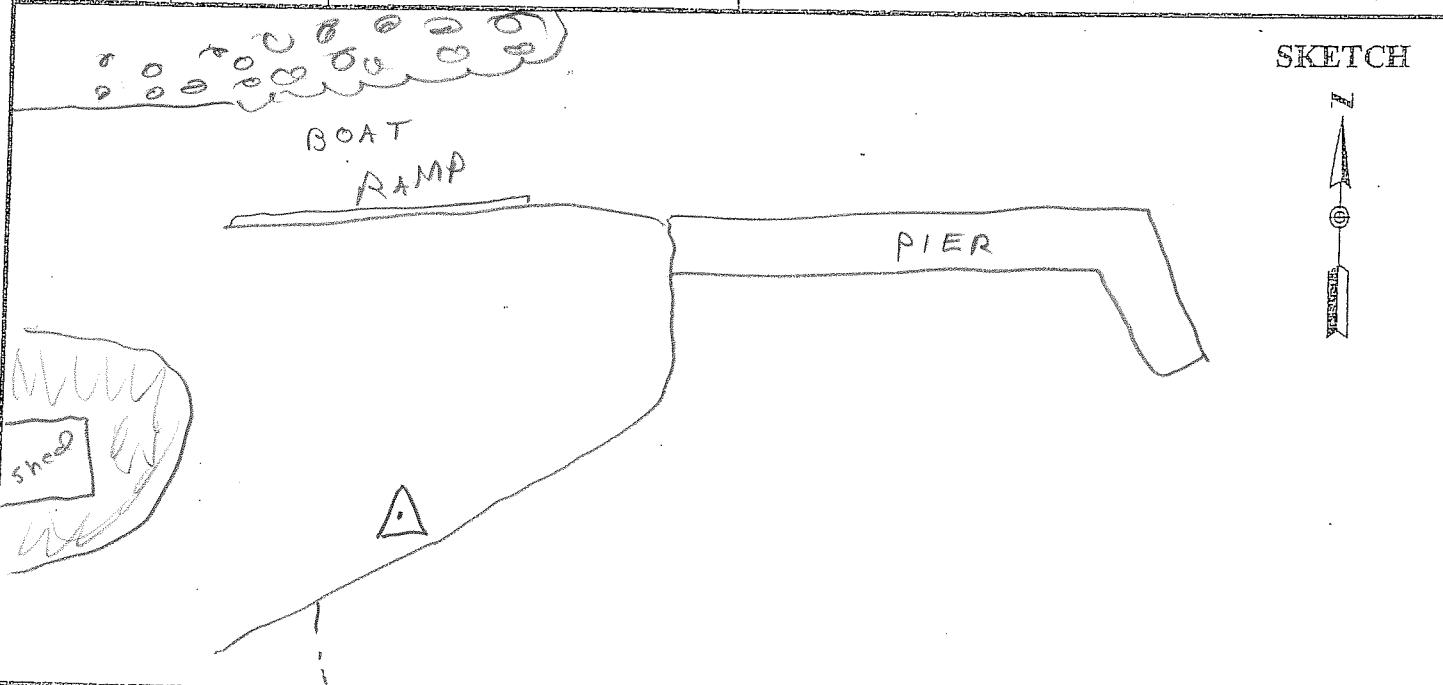
SKETCH



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✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	2
OPERATOR	MB		SITE NAME	23
DATE	12.17.10			
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE	500 9500 399 299
START	9:01 a		MEMORY CARD	732
STOP	9:28 a		BATTERY NO.	C18
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	S side paved area
	1.256	1616		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES		
1001	2.7	6/6		
1028				

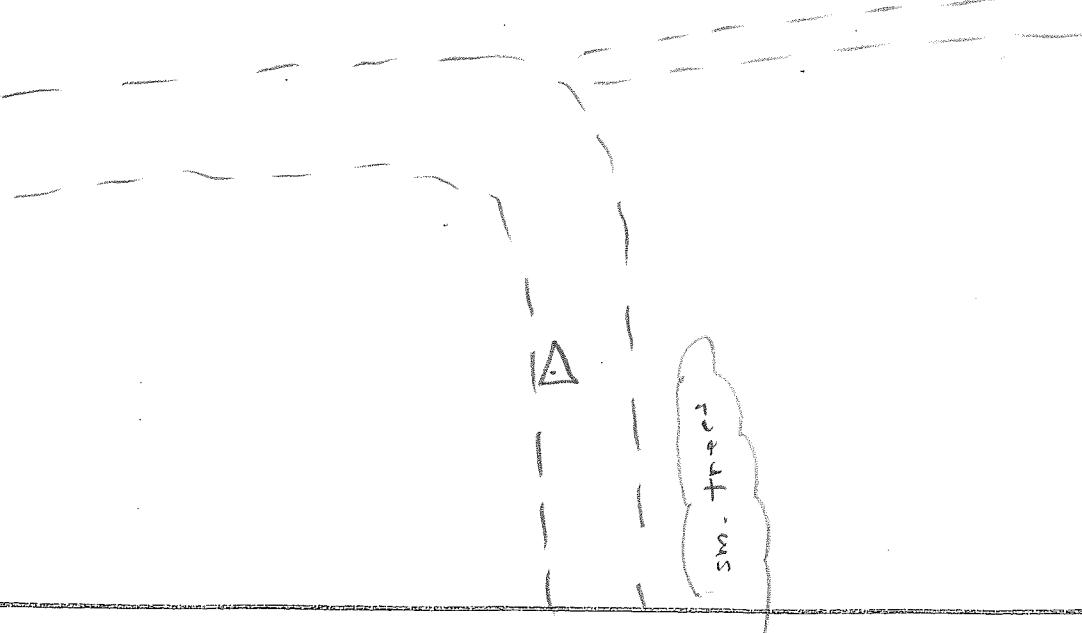


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✓PT

PROJECT <u>1-101205 / Calkeun</u> OPERATOR <u>M3</u> DATE <u>12.17.10</u>	SITE NUMBER <u>3</u> SITE NAME <u>24</u>		
TRACKING TIMES (LOCAL) MEASURE <u>✓</u> START <u>9:56 a.</u> STOP <u>10:29 a.</u>			
SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>732</u> BATTERY NO. <u>CB</u> CONTROLLER NO. SENSOR NO.			
SENSOR CONSTANT 299/399 0.441 <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>			
OBSTRUCTIONS: <u>none</u> <hr/> <hr/> <hr/> <hr/> <hr/>			
HEIGHT READINGS MTS FT <u>1.275</u> <u>1635</u> <hr/> <hr/> <hr/> <hr/> <hr/>			
STATION DESCRIPTIONS <u>w. side road</u> <hr/> <hr/> <hr/> <hr/> <hr/>			
SATELLITE OBSERVATIONS			
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS			
TIME	GDOP	SATELLITES	
1056	2.5	8/8	
1129			

SKETCH



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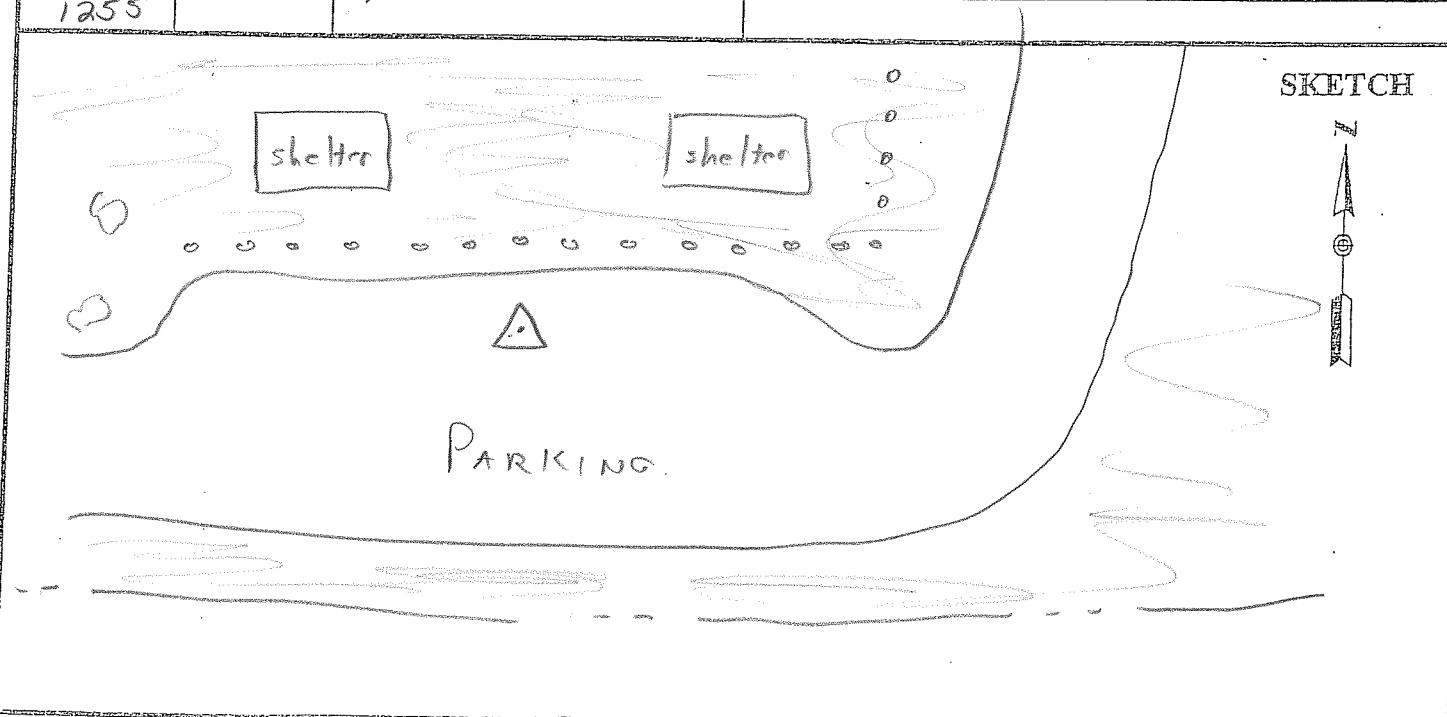
✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	4
OPERATOR	MB		SITE NAME	25
DATE	12-17-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	10:45 a.		MEMORY CARD	732
STOP	11:16 a.		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389	OBSTRUCTIONS:	trees S
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	center of cul-de-sac
	1.390			
		1.750		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1145	2.7	8/8		
1216				
			SKETCH <i>Grandview Bay</i>	

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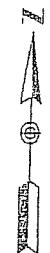
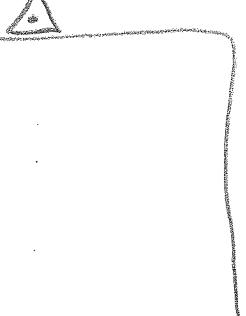
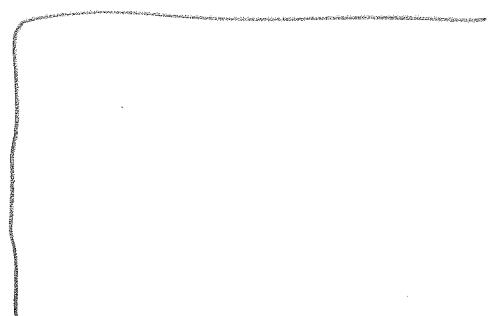
✓pt

PROJECT	1-101205 / Calhoun		SITE NUMBER	5
OPERATOR	MB		SITE NAME	26
DATE	12-17-10			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	11:25 a.		MEMORY CARD	732
STOP	11:55 a.		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	N side parking area
	1.378	1738		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1225	1.8	9/9		
1255				



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✓PT

PROJECT	1-101205 / Calhoun						
OPERATOR	MB		SITE NUMBER 6				
DATE	12-17-10		SITE NAME 27				
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE 500 9500 399 299 MEMORY CARD 732 BATTERY NO. C0 CONTROLLER NO. SENSOR NO.				
SENSOR CONSTANT 299/399 399E/9500 500			OBSTRUCTIONS: none				
HEIGHT READINGS MTS FT 1.342 1.702			STATION DESCRIPTIONS S. side road				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDO	SATELLITES					
1304	3.7	7/7					
1335							
			SKETCH 				
							

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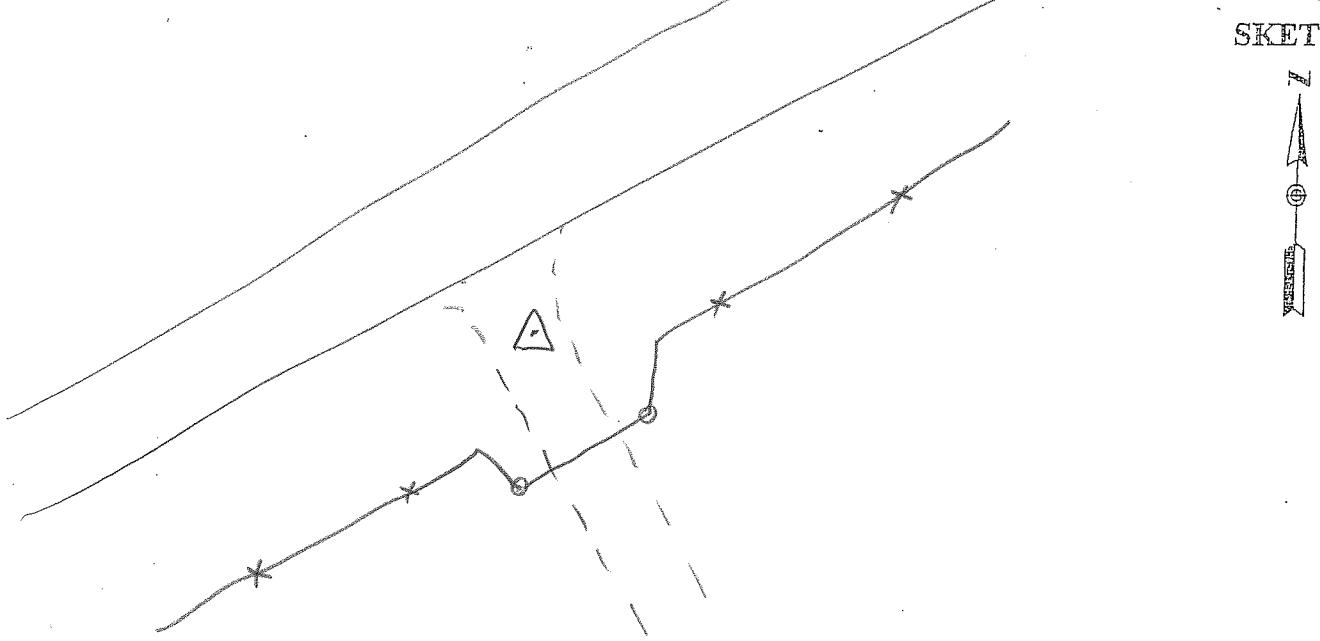
PROJECT	1-101205 / Calhoun						
OPERATOR	MB		SITE NUMBER				
DATE	12-17-10		SITE NAME				
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE 500 9500 399 299 MEMORY CARD 732 BATTERY NO. CB CONTROLLER NO. SENSOR NO.				
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS: none				
HEIGHT READINGS MTS FT 1.371 _____ 1.731			STATION DESCRIPTIONS w side Drive				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDO	SATELLITES					
1341	2.3	7/7					
1408							
SKETCH							

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✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	8
OPERATOR	NB		SITE NAME	29
DATE	12-17-10			
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE	500 9500 399 299
START	1:18 p		MEMORY CARD	732
STOP	1:43 p		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS: none	
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS 2 drive	
	1.400			
		1.760		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1418	3.1	7/8		
1443				

SKETCH

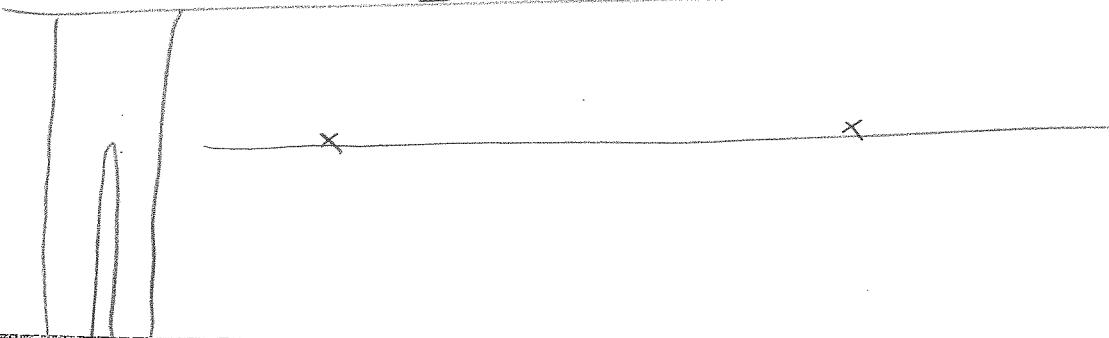


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SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	9
OPERATOR	NB		SITE NAME	30
DATE	12-17-10			
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE	500 9500 399 299
START	1:52 p		MEMORY CARD	732
STOP	2:13 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	S. shoulder
	<u>1.340</u>	<u>1.700</u>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1452	1.7	11/11		
1513				

SKETCH



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SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT 1-101205 / Calhoun
OPERATOR MB
DATE 12-17-10

SITE NUMBER 10
SITE NAME 31

TRACKING TIMES (LOCAL) MEASURE ✓
START 2:43 p
STOP 3:25 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 732
BATTERY NO. CB
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.368 1.728

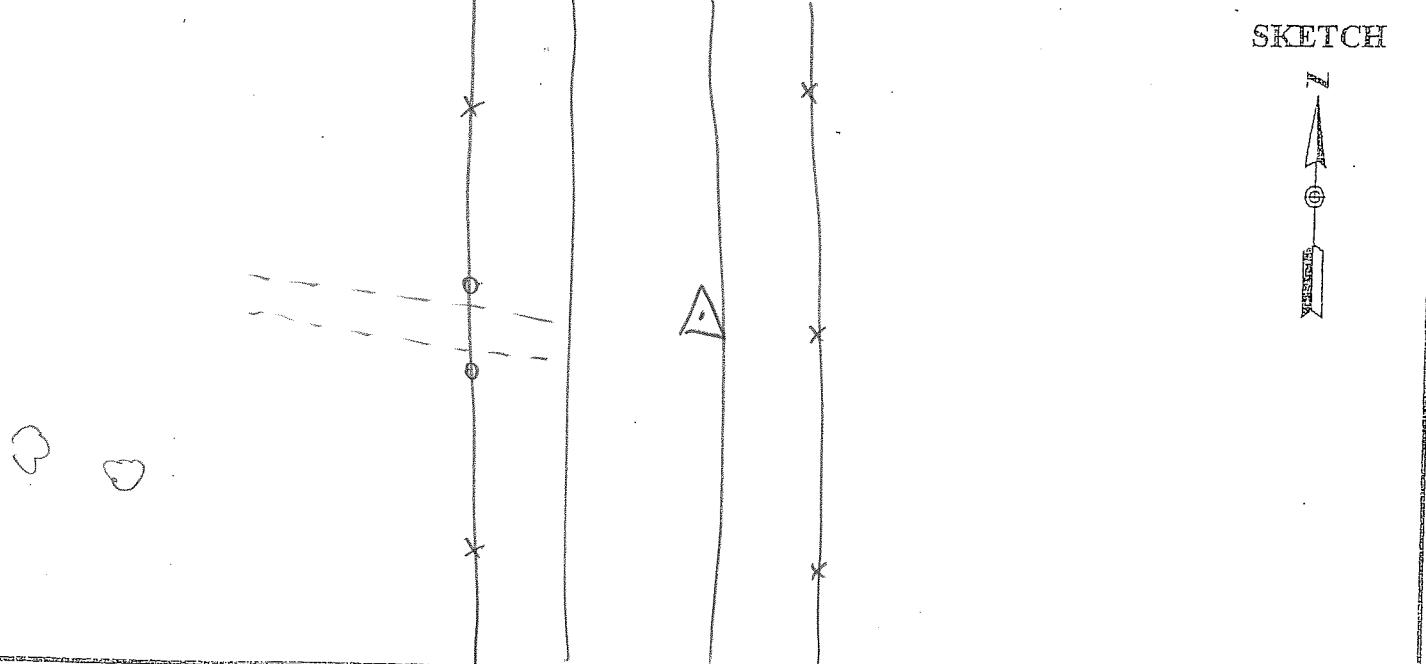
STATION DESCRIPTIONS E. side road

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1543	2.6	8/9
1625		

SKETCH



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base

PROJECT	1-101205 / Calhoun		SITE NUMBER	1
OPERATOR	MB		SITE NAME	LAVAPORT
DATE	12-18-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	8:35 a.		MEMORY CARD	603
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.355			
		1.715		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
935	3.0	8/8		
		-		

SKETCH



see
previous

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base VPT

PROJECT	1-101205 / Calhoun						
OPERATOR	NB		SITE NUMBER 1				
DATE	12.18.10		SITE NAME 17				
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE 500 9500 399 299 MEMORY CARD 731 BATTERY NO. CB CONTROLLER NO. SENSOR NO.				
START 9:04 STOP							
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:				
HEIGHT READINGS MTS FT 1.172			STATION DESCRIPTIONS 1.532				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDO	SATELLITES					
1904	2.1	7/7					

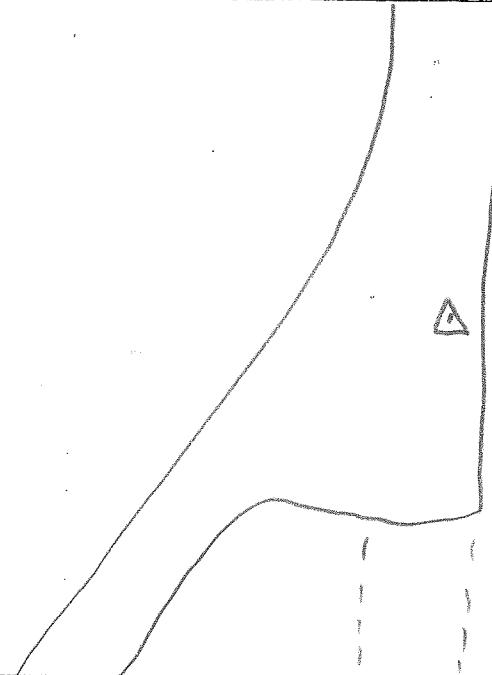
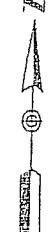
SKETCH

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previous



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4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

VPT

PROJECT	1-101205/Cathouan	SITE NUMBER	1
OPERATOR	M3	SITE NAME	32
DATE	12-18-10		
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>		SENSOR TYPE	500 9500 399 299
START	9:21 a.	MEMORY CARD	732
STOP	9:54 a.	BATTERY NO.	
		CONTROLLER NO.	
		SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS NE side of road
	1.379	1.739	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES	
1021	3.7	7/8	
1054			
		 PIER	SKETCH 

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SHEBOYGAN, WISCONSIN 53083

✓PT

PROJECT 1-101205 / Calhoon
OPERATOR M3
DATE 12-18-10

SITE NUMBER 2
SITE NAME 33

TRACKING TIMES (LOCAL) MEASURE /
START 10:03 a.
STOP 10:32 a.

SENSOR TYPE 500 9500 399 299
MEMORY CARD 732
BATTERY NO. C6
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

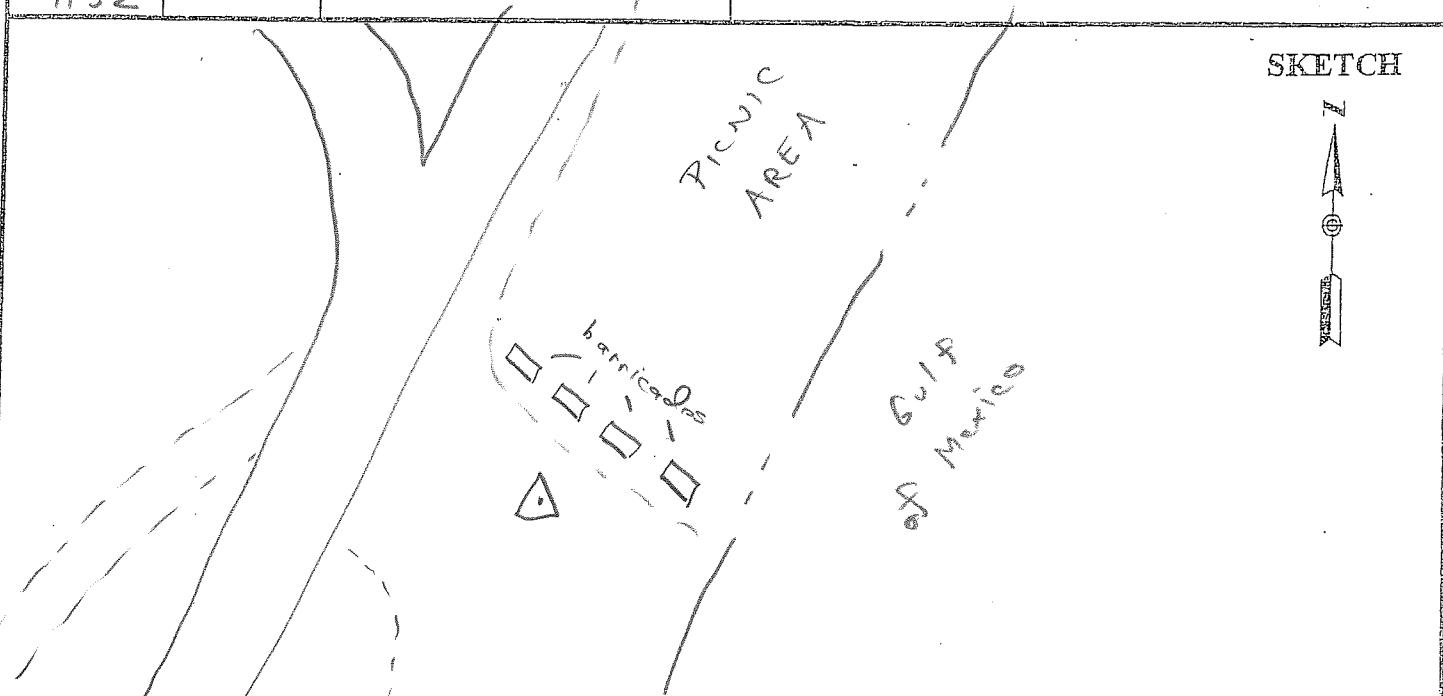
HEIGHT READINGS MTS FT
1.352 1.712

STATION DESCRIPTIONS in gravel area

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1103	2.5	<u>8/8</u>
1132		



AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT 1-101205 / calhour
OPERATOR MJ
DATE 12-18-10

SITE NUMBER 3
SITE NAME 34

TRACKING TIMES (LOCAL) MEASURE ✓
START 10:46 a.
STOP 11:06 a.

SENSOR TYPE 500 9500 399 299
MEMORY CARD 732
BATTERY NO. CB
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399
399E/9500
500

0.441
0.389
0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.349 1209

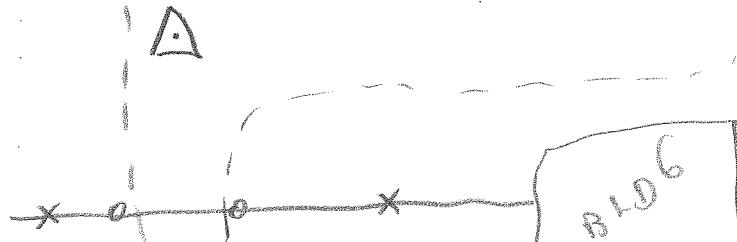
STATION DESCRIPTIONS SW corner
of gravel area

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOPO	SATELLITES
1146	2.6	8/8
1206		

SKETCH



AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205/Calboun			SITE NUMBER	4
OPERATOR	MB			SITE NAME	35
DATE	12.18.10				
TRACKING TIMES (LOCAL) MEASURE				SENSOR TYPE	500 9500 399 299
START	11:21			MEMORY CARD	732
STOP	11:40			BATTERY NO.	C16
				CONTROLLER NO.	
				SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: none		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS parking lot		
	1.370				
		1.730			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS		
TIME	GDOP	SATELLITES			
1221	1.8	9/9			
1240					
SKETCH					

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓AT

PROJECT 1-101205 /calhour
OPERATOR M3
DATE 12.18.10

SITE NUMBER 5
SITE NAME 36

TRACKING TIMES (LOCAL) MEASURE ✓
START 11:50 a.
STOP 12:13 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 732
BATTERY NO. CG
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

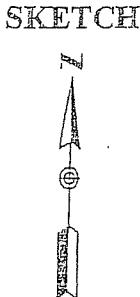
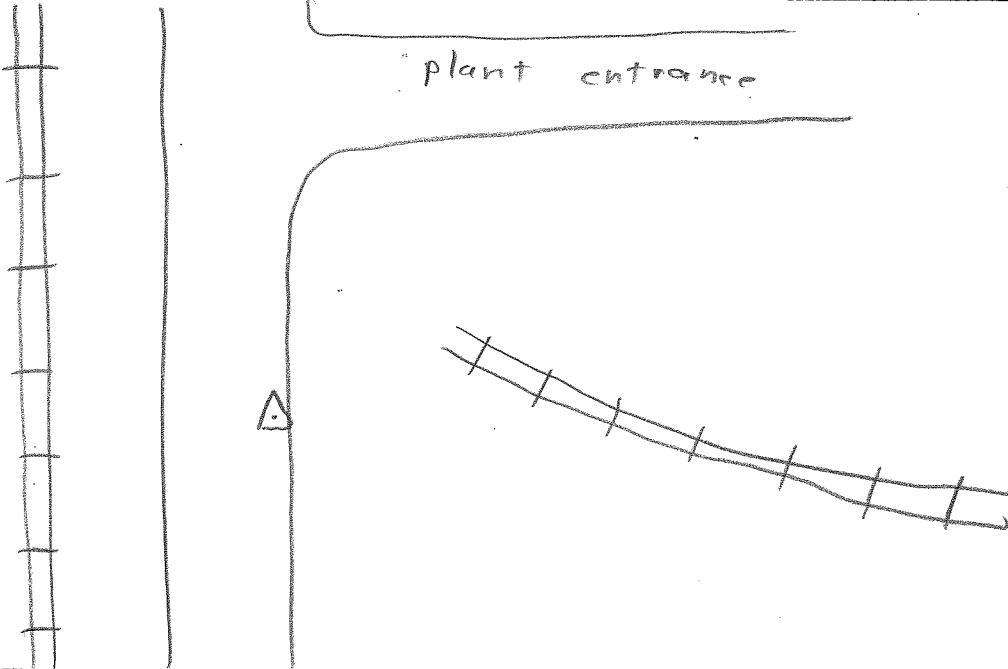
HEIGHT READINGS MTS FT
1.291 1651

STATION DESCRIPTIONS E. shoulder

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOPO	SATELLITES
1250	4.7	6/6
1313		

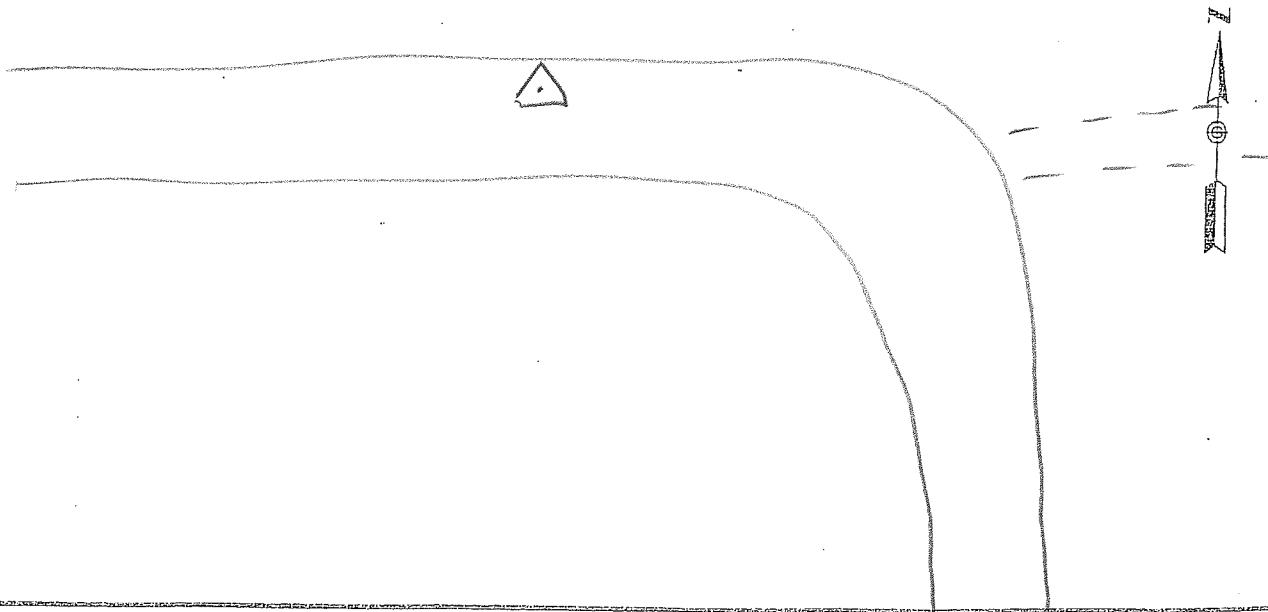


AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205/cathoun		SITE NUMBER	6
OPERATOR	MB		SITE NAME	37
DATE	12-18-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	12:32 p		MEMORY CARD	732
STOP	12:56 p		BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	N. side road
	1.370	—		—
		1.730		—
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1332	2.1	8/8		
1356				

SKETCH

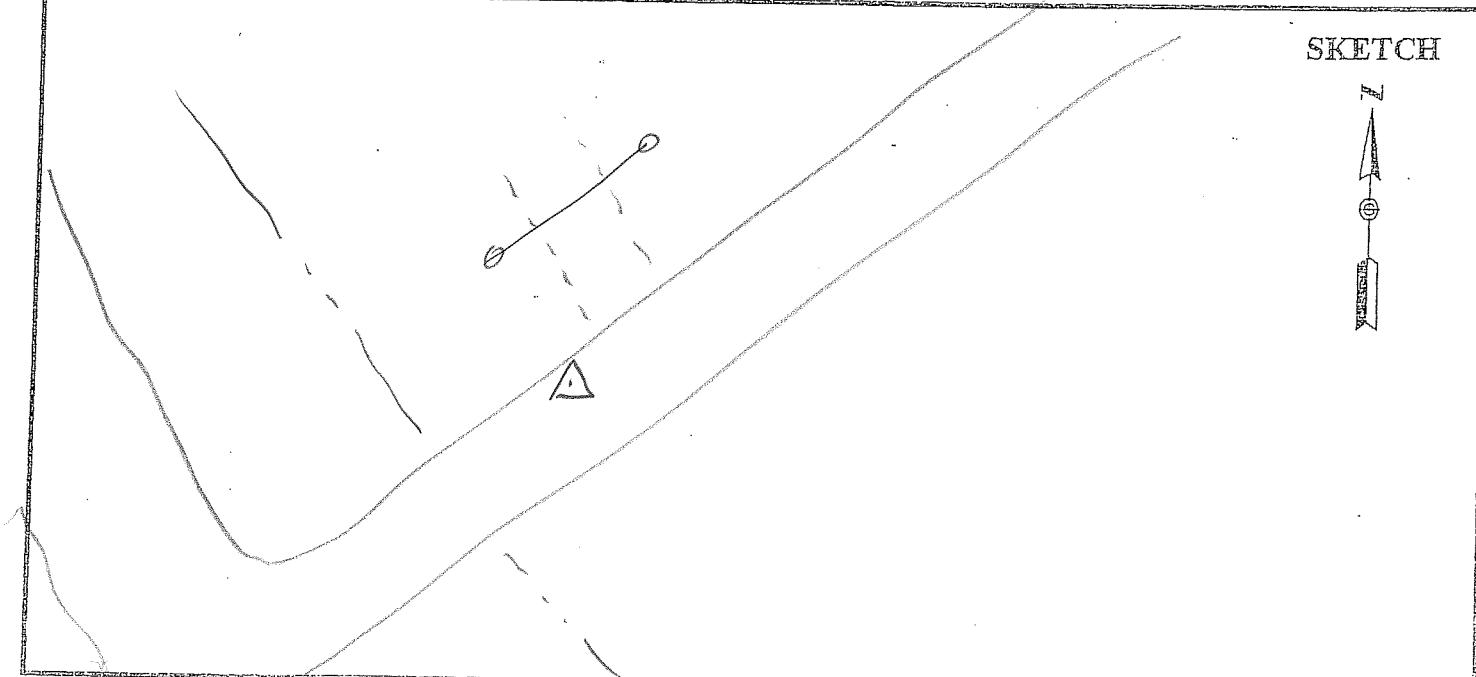


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VPT

PROJECT	1-101205/Cathoun		SITE NUMBER	7
OPERATOR	MB		SITE NAME	38
DATE	12-18-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	1:13 p		MEMORY CARD	732
STOP	1:42 p		BATTERY NO.	C6
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.360	1.720		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1413	2.7	8/8		
1442				

SKETCH



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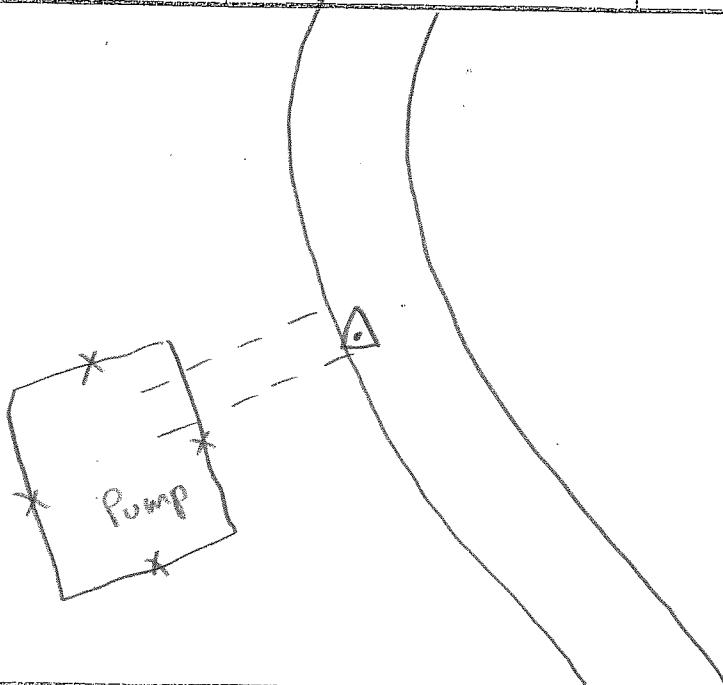
✓ PT

PROJECT	1-101205 / Calhoun	SITE NUMBER	8
OPERATOR	M/B	SITE NAME	39
DATE	12-18-10		

TRACKING TIMES (LOCAL) MEASURE	SENSOR TYPE	500	9500	399	299
START	MEMORY CARD	732			
STOP	BATTERY NO.	CB			
	CONTROLLER NO.				
	SENSOR NO.				

SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	none
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	w. shoulder
	1.327			
		1.687		

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDO	SATELLITES	
1445	2.2	9/9	
1511			



SKETCH



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Base

PROJECT	1-108205 / Calhoun		SITE NUMBER	1
OPERATOR	M3		SITE NAME	100
DATE	12.19.10			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	7:55 a.		MEMORY CARD	732
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389	OBSTRUCTIONS:	
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.327			
		1687		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
855	4.0	9/10		

SKETCH

see
previous



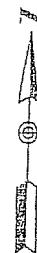
AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base

PROJECT	1-104205 / Calhoun		SITE NUMBER	1
OPERATOR	M3		SITE NAME	100
DATE	12.19.10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	7:55 a.		MEMORY CARD	732
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT 399/399 399E/9500 500			OBSTRUCTIONS:	
0.441 0.389 0.360				
HEIGHT READINGS MTS 1.327			STATION DESCRIPTIONS	
1687				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
855	4.0	9/10		

SKETCH

see
previous



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Bo3e

PROJECT	1-108205 / Calhoun			SITE NUMBER	1
OPERATOR	M3			SITE NAME	100
DATE	12.19.10				
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE 500 9500 399 299 MEMORY CARD 732 BATTERY NO. CB CONTROLLER NO. SENSOR NO.		
START	7:55 a.				
STOP					
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389	0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	1327	STATION DESCRIPTIONS	
			1687		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS		
TIME	GDOP	SATELLITES			
855	4.0	9/10			

SKETCH

See
previous



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Base

PROJECT	1-101205/Cathoun		SITE NUMBER	1
OPERATOR	M3		SITE NAME	LAVAPORT
DATE	12-19-10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	7:32 a.		MEMORY CARD	731
STOP			BATTERY NO.	C13
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS:	
1.353				
1.713				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
832	1.7	9/10		

SKETCH

See
previous



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Base

PROJECT	1-104205 / Calkin			SITE NUMBER	1
OPERATOR	M3			SITE NAME	100
DATE	12.19.10				
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE 500 9500 399 299 MEMORY CARD 732 BATTERY NO. CB CONTROLLER NO. SENSOR NO.		
START 7:55 a. STOP					
SENSOR CONSTANT 299/399 399E/9500 500			0.441 0.389 0.360		
HEIGHT READINGS MTS FT 1.327 1687			OBSTRUCTIONS: <hr/> <hr/> <hr/> STATION DESCRIPTIONS: <hr/> <hr/> <hr/>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS		
TIME	GDOP	SATELLITES			
855	4.0	9/10			

SKETCH

See
previous



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Base

PROJECT	1-101205/Calthaun							
OPERATOR	M3		SITE NUMBER 1					
DATE	12-19-10		SITE NAME LAVA PORT					
TRACKING TIMES (LOCAL) MEASURE ✓								
START	7:32 a.		SENSOR TYPE 500 9500 399 299					
STOP			MEMORY CARD 731					
			BATTERY NO. C13					
			CONTROLLER NO.					
			SENSOR NO.					
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:					
	399E/9500	0.389						
	500	0.360						
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS					
	1.353							
		1713						
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS					
TIME	GDOP	SATELLITES						
832	1.7	9/10						

SKETCH



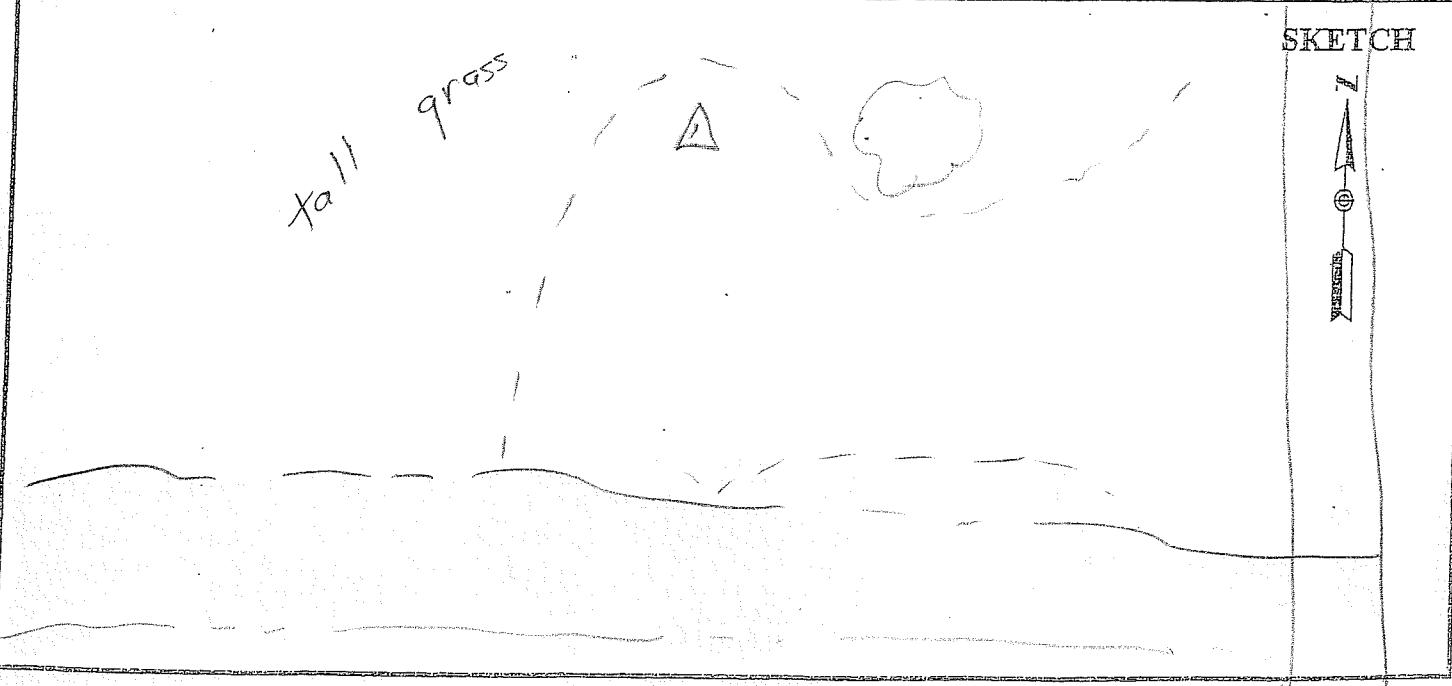
See

previous

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VAT

PROJECT <u>1-101208 / Colhouse</u> OPERATOR <u>NM</u> DATE <u>12-19-10</u>	SITE NUMBER <u>1</u> SITE NAME <u>40</u>	
TRACKING TIMES (LOCAL) MEASURE <u>✓</u> START <u>8:17</u> STOP <u>8:49</u>		
SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>603</u> BATTERY NO. CONTROLLER NO. SENSOR NO.		
SENSOR CONSTANT 299/399 0.441 <u>399E/9500</u> 0.389 <u>500</u> <u>0.360</u>	OBSTRUCTIONS: <u>tree E</u> <u>rock</u> <u>puddle</u> <u>debris</u>	
HEIGHT READINGS MTS FT <u>1.363</u> <u>1.723</u>	STATION DESCRIPTIONS <u>in hard</u> <u>puddled clearing</u>	
SATELLITE OBSERVATIONS		
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS		
TIME	GDOP	SATELLITES
917	2.2	<u>8/8</u>
949		



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VPT

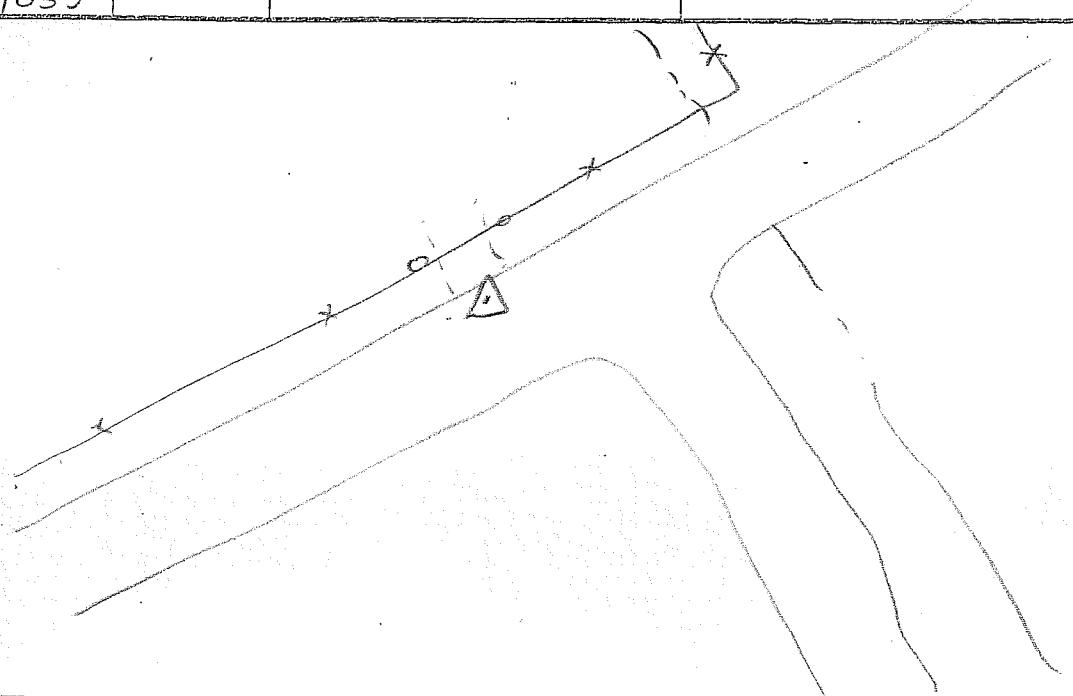
PROJECT	1-101205 / Calhoun	SITE NUMBER	2
OPERATOR	MB	SITE NAME	41
DATE	12-19-10		
TRACKING TIMES (LOCAL) MEASURE	✓	SENSOR TYPE	500 9500 399 299
START	8:55 a.	MEMORY CARD	603
STOP	9:22 a.	BATTERY NO.	C.B.
		CONTROLLER NO.	
		SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSSTRUCTIONS: none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS: in Driveway
	1.385		
		1745	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	
955	2.7	7/7	
1022			
			SKETCH

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✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	3
OPERATOR	MB		SITE NAME	42
DATE	12.19.10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	9:34 a.		MEMORY CARD	603
STOP	9:55 a.		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	1.364		OBSTRUCTIONS:	none
		1.724	STATION DESCRIPTIONS:	NW side of road
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1034	2.4	8/8		
1055				

SKETCH



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VPT

PROJECT 1-101205 / Colhoun
OPERATOR MG
DATE 12-19-10

SITE NUMBER 4
SITE NAME 43

TRACKING TIMES (LOCAL) MEASURE ✓
START 10:03 a.
STOP 10:28 a.

SENSOR TYPE 500 9500 399 299
MEMORY CARD 603
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

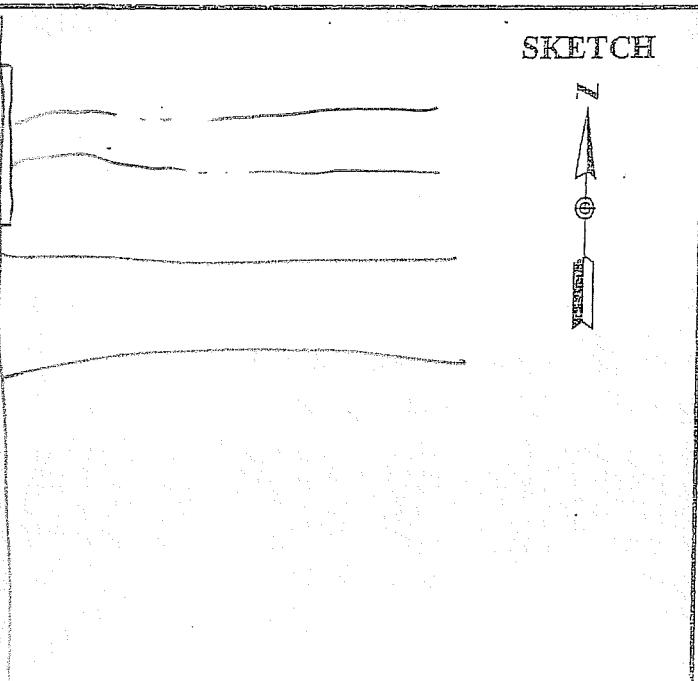
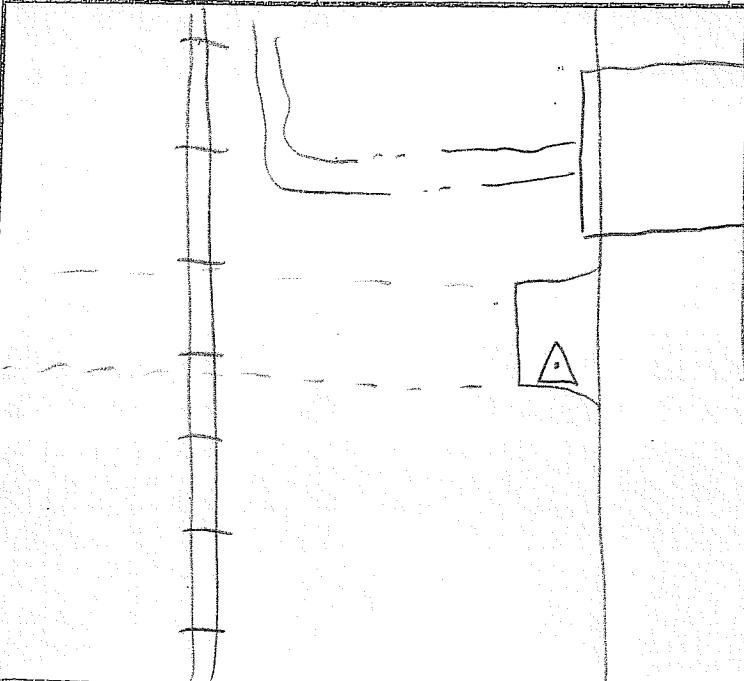
HEIGHT READINGS MTS FT
1.415 1.775

STATION DESCRIPTIONS S. side Drive

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDO	SATELLITES
1103	2.9	9/9
1128		



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1/PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	5
OPERATOR	MB		SITE NAME	44
DATE	12-19-10			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	10:35 a.		MEMORY CARD	603
STOP	11:00 a.		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.339 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	OBSSTRUCTIONS:	none
		1374		
		1734		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1135	2.7	8/8		
1200				
SKETCH				

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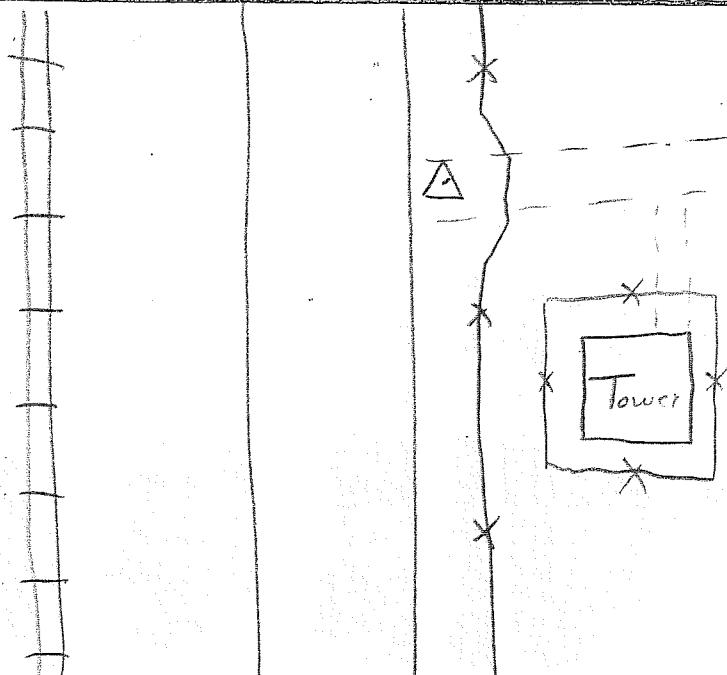
✓ PT

PROJECT	1-101205/Cathouin		SITE NUMBER	6				
OPERATOR	MG		SITE NAME	45				
DATE	12.19.10							
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500	9500	399	299	
START	11:05 a.		MEMORY CARD	603				
STOP	11:30 a.		BATTERY NO.					
			CONTROLLER NO.					
			SENSOR NO.					
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none				
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	E. shoulder				
		1.359						
		1.719						
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS					
TIME	GDOP	SATELLITES						
1205	1.9	9/9						
1230								
<p style="text-align: right;">SKETCH</p>								

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✓PT

PROJECT <u>1-101205 / Calhoun</u> OPERATOR <u>M9</u> DATE <u>12-19-10</u>	SITE NUMBER <u>7</u> SITE NAME <u>46</u>		
TRACKING TIMES (LOCAL) MEASURE <u>✓</u> START <u>11:38 a.</u> STOP <u>12:05 p</u>			
SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>603</u> BATTERY NO. CONTROLLER NO. SENSOR NO.			
SENSOR CONSTANT 299/399 0.441 <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>			
HEIGHT READINGS MTS FT <u>1383</u> <u>1743</u>			
SATELLITE OBSERVATIONS			
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS			
TIME	GDOP	SATELLITES	
1238	4.4	6/6	
1305			



SKETCH

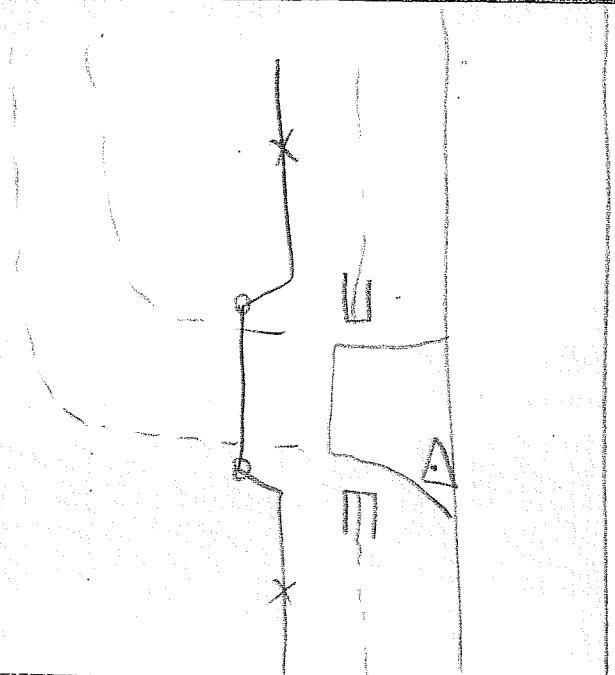


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✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	8
OPERATOR	NB		SITE NAME	47
DATE	12-19-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	12:22 p		MEMORY CARD	603
STOP	12:46 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	W. shoulder
	1.341			
		1.701		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1322	2.0	7/7		
1346				

SKETCH



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✓PT

PROJECT 1-101205 / Calhoun
OPERATOR NB
DATE 12-19-10

SITE NUMBER 9
SITE NAME 48

TRACKING TIMES (LOCAL) MEASURE ✓
START 1:06 p
STOP 1:26 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 603
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: No obstructions

HEIGHT READINGS MTS FT
1.335 1.695

STATION DESCRIPTIONS S. side road

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1406	1.9	9/9

SKETCH



GOLF
course



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✓ pt

PROJECT 1-101205 / Calhoun
OPERATOR M3
DATE 12-19-10

SITE NUMBER 10
SITE NAME 49

TRACKING TIMES (LOCAL) MEASURE ✓
START 1:33 p
STOP 1:57 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 603
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.420 1.780

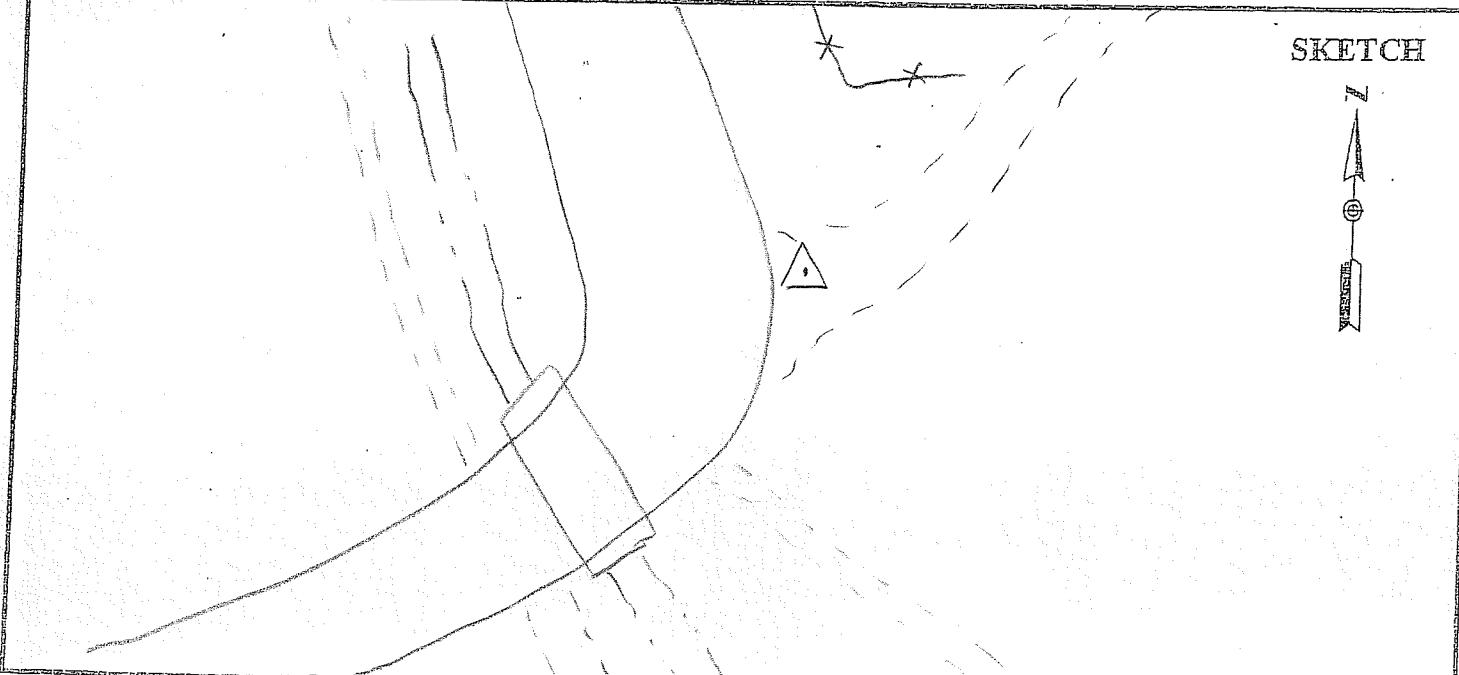
STATION DESCRIPTIONS E. side road

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1433	2.1	8/9
1457		

SKETCH



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✓

PROJECT 1-101205/Cathou
OPERATOR NB
DATE 12.19.10

SITE NUMBER 11
SITE NAME 50

TRACKING TIMES (LOCAL) MEASURE ✓
START 2:07 p
STOP 2:25 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 603
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.312 1.672

STATION DESCRIPTIONS N. shoulder

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1507	2.1	10/10
1525		

SKETCH



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SHEBOYGAN, WISCONSIN 53083

Gosse

PROJECT	1-101205 / Calhoun		SITE NUMBER	1		
OPERATOR	M3		SITE NAME	100		
DATE	1-27-11					
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500	9500	399
START	7:42 a.		MEMORY CARD	731		
STOP			BATTERY NO.	C13		
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT 299/399 399E/9500 500			OBSERVATIONS:			
HEIGHT READINGS MTS FT 1.151 1.511			STATION DESCRIPTIONS			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS			
TIME	GDOP	SATELLITES				
842	3.1	6/7				
SKETCH						
 <i>See previous</i>						

AERO-METRIC, INC.
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Page

✓pt

PROJECT	1401205 / Colhoun		SITE NUMBER	1
OPERATOR	J		SITE NAME	13
DATE	1-27-10			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	8:19		MEMORY CARD	732
STOP			BATTERY NO.	30
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.280			
		1.640		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
8:19	1.9	9/9		

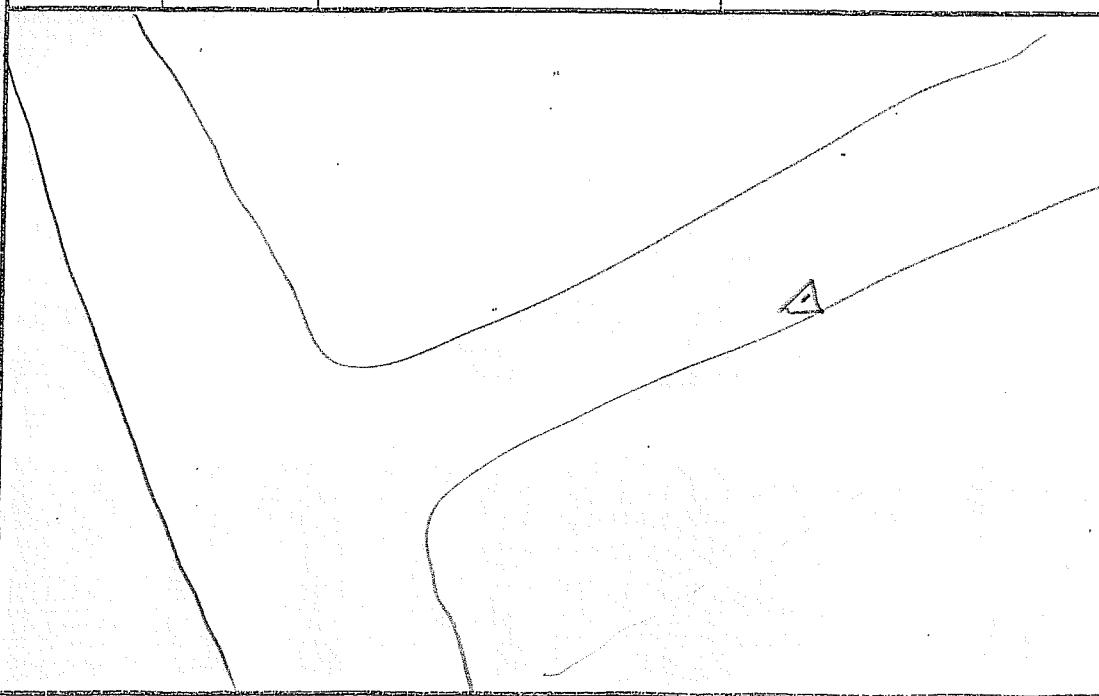
SKETCH



See
previous

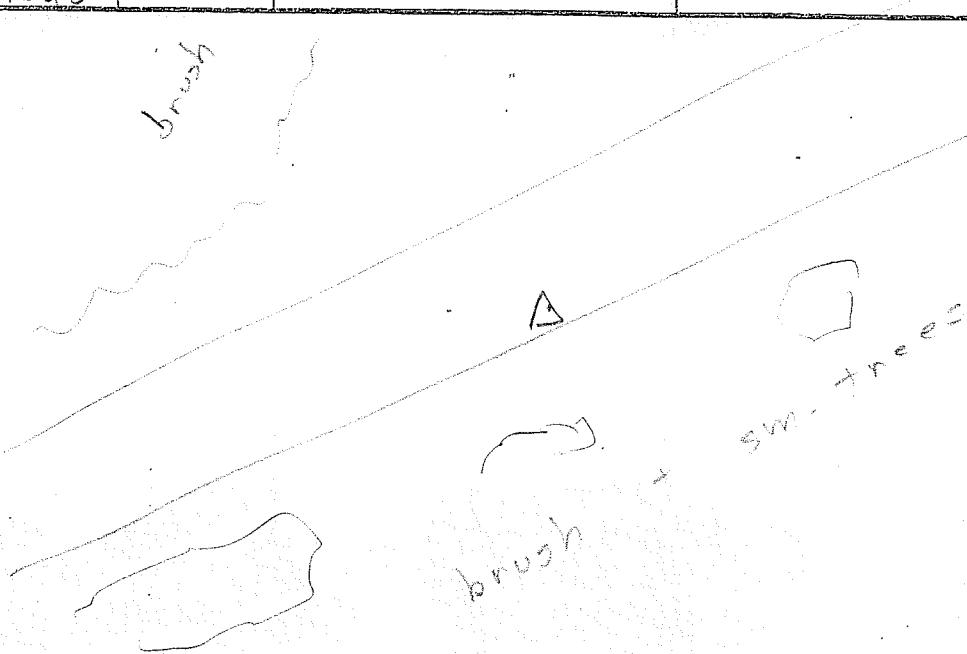
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✓PT

PROJECT	1-101205 / Calhoun	SITE NUMBER	1
OPERATOR	ME	SITE NAME	SE
DATE	1-27-11		
TRACKING TIMES (LOCAL) MEASURE ✓ START 8:40 a. STOP 8:58 a.		SENSOR TYPE 500 9500 399 299 MEMORY CARD 603 BATTERY NO. CONTROLLER NO. SENSOR NO.	
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360		OBSTRUCTIONS: none	
HEIGHT READINGS MTS FT 1.400 1.766		STATION DESCRIPTIONS SE shoulder	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES	
940	2.6	5/c	
958			
			SKETCH

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SHEBOYGAN, WISCONSIN 53083

VPT

PROJECT	1-101205 / Cal houn	SITE NUMBER	2
OPERATOR	M3	SITE NAME	52
DATE	1-27-11		
TRACKING TIMES (LOCAL) MEASURE ✓ START 9:07 a. STOP 9:25 a.		SENSOR TYPE	500 9500 399 299
		MEMORY CARD	603
		BATTERY NO.	
		CONTROLLER NO.	
		SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSERVATIONS: none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS SE shoulder
	<u>1.363</u>		
		1.723	
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES	
1007	3.4	7/7	
1025			
			SKETCH 

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓PT

PROJECT 1-101205 / Colbourn
OPERATOR MB
DATE 1-27-11

SITE NUMBER 3
SITE NAME 53

TRACKING TIMES (LOCAL) MEASURE ✓
START 9:32 a.
STOP 9:51 a.

SENSOR TYPE 500 9500 399 299
MEMORY CARD 603
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

HEIGHT READINGS MTS FT
1.406 —
1.766

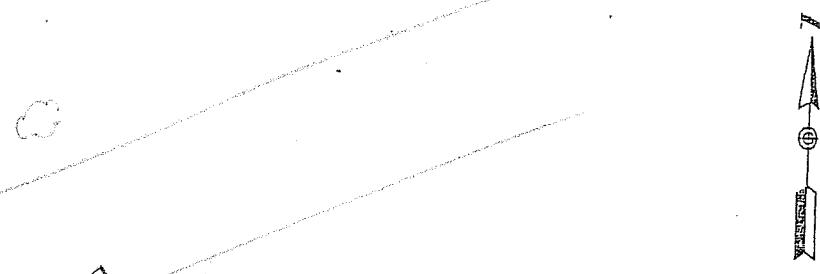
OBSTRUCTIONS: none
STATION DESCRIPTIONS SE school

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1032	5.4	6/6
1051		

SKETCH



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓ DT

PROJECT 1-101205 / Calhoun
OPERATOR MG
DATE 1-27-11

SITE NUMBER 4
SITE NAME 54

TRACKING TIMES (LOCAL) MEASURE _____
START 10:04 a.
STOP 10:25 a.

SENSOR TYPE 500 9500 399 299
MEMORY CARD 603
BATTERY NO. _____
CONTROLLER NO. _____
SENSOR NO. _____

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

STATION DESCRIPTIONS Nee side

HEIGHT READINGS MTS FT
1.401 _____

1.761

SATELLITE OBSERVATIONS WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1104	2.9	7/8
1125		

SKETCH

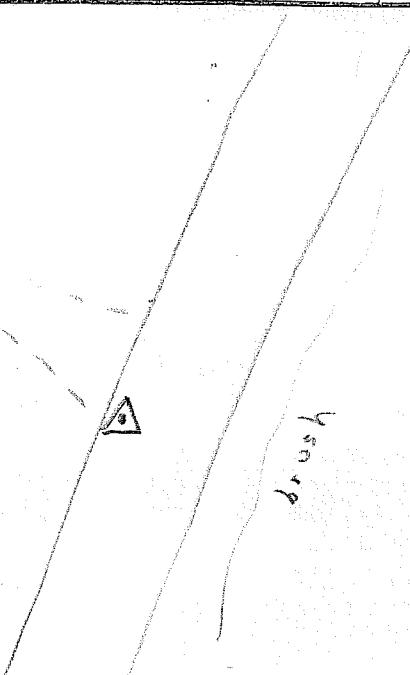
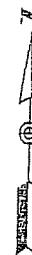


AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

✓AT

PROJECT	I-101205/Cabourn		SITE NUMBER	5
OPERATOR	MB		SITE NAME	55
DATE	1-27-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	10:29:		MEMORY CARD	603
STOP	10:49:		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	New side room
	<u>1.387</u>			
		1.747		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1129	2.5	9/9		
1149				

SKETCH



AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

1/PT

PROJECT	1-101205 / Calhoun						
OPERATOR	NO		SITE NUMBER 6				
DATE	1-27-11		SITE NAME 56				
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE 500 9500 399 299 MEMORY CARD 603 BATTERY NO. CONTROLLER NO. SENSOR NO.				
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS: none				
HEIGHT READINGS MTS FT 1.380 1.740			STATION DESCRIPTIONS Saw side road				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
1154	2.3	8/9					
1214							
 SKETCH							
							

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SHEBOYGAN, WISCONSIN 53083

✓ PT

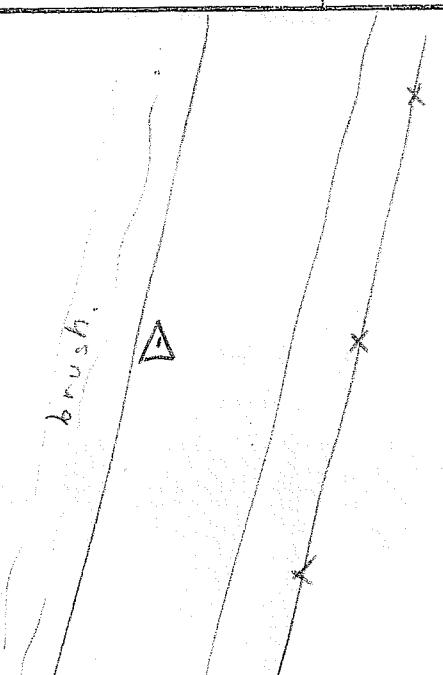
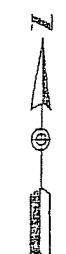
PROJECT	I-101205 / Calhoun		SITE NUMBER	7
OPERATOR	MD		SITE NAME	57
DATE	1-27-11			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	11:20 a.		MEMORY CARD	603
STOP	11:41 a.		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
			OBSTRUCTIONS:	none
			STATION DESCRIPTIONS	SE shoulder
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1220	3.0	8/9		
1241				

SKETCH



AERO-METRIC, INC.
 4020 TECHNOLOGY PARKWAY
 SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Calhour		SITE NUMBER	8
OPERATOR	NO		SITE NAME	58
DATE	1-27-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	11:48		MEMORY CARD	603
STOP	12:10		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	None
	399E/9500	0.329		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	w. side road
	1.328			
		1.688		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1248	3.1	7/9		
1310				
				
SKETCH				
				

AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

PROJECT 1-101205 / Calhoun
OPERATOR N6
DATE 1-27-11

SITE NUMBER 9
SITE NAME 59

SENSOR TYPE	500	9500	399	299
MEMORY CARD	<u>603</u>			
BATTERY NO.	<u>C18</u>			
CONTROLLER NO.				
SENSOR NO.				

OBTURATORS: none

SENSOR CONSTANT	299/399	0.441
	399E/9500	0.389
	500	0.360

STATION DESCRIPTIONS

HEIGHT READINGS	MTS	FT
	1.380	

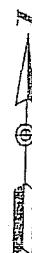
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOPO	SATELLITES
1322	2.2	7/7
1342		

SKETCH



AERO-METRIC, INC.
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 SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT 1-101205/Calhoun
 OPERATOR MG
 DATE 1-27-11

SITE NUMBER 10
 SITE NAME 60

TRACKING TIMES (LOCAL) MEASURE /
 START 12:50 p
 STOP 1:11 p

SENSOR TYPE 500 9500 399 299
 MEMORY CARD 603
 BATTERY NO. C6
 CONTROLLER NO.
 SENSOR NO.

SENSOR CONSTANT 299/399 0.441
 399E/9500 0.389
 500 0.360

OBSTRUCTIONS: No ob

HEIGHT READINGS MTS FT
1.375

STATION DESCRIPTIONS NW side of
Road

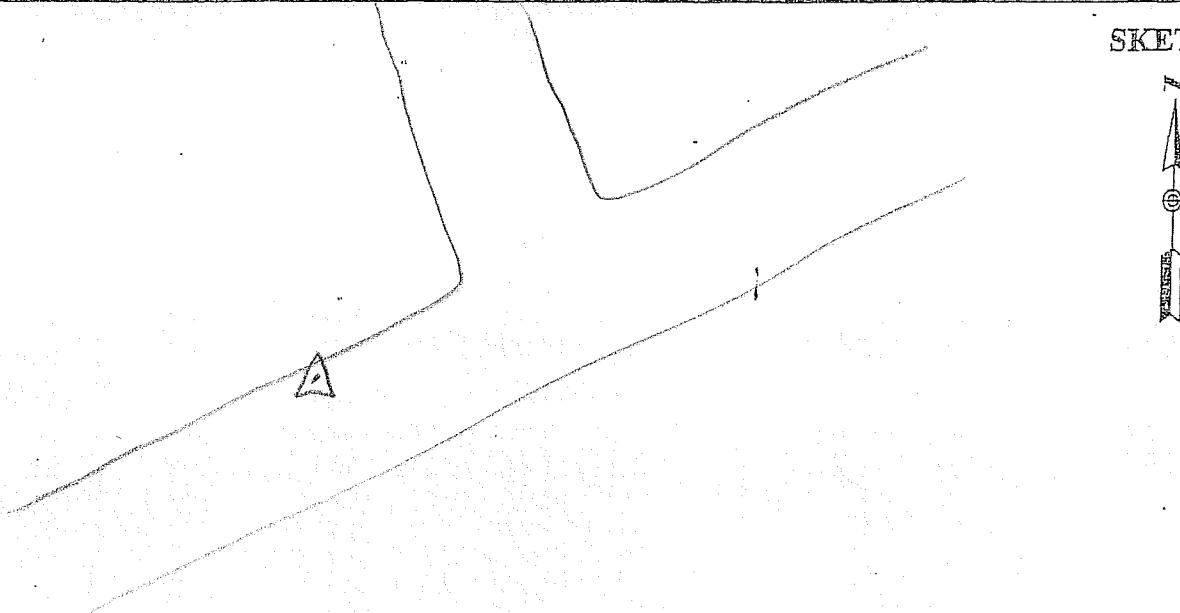
1735

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

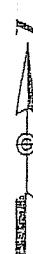
TIME	GDOP	SATELLITES
1350	2.5	6/6
1411		

SKETCH



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base ✓ PT

PROJECT <u>1-101205 / Calhoun</u> OPERATOR <u>NB</u> DATE <u>1-31-11</u>	SITE NUMBER <u>1</u> SITE NAME <u>13</u>									
TRACKING TIMES (LOCAL) MEASURE _____ START <u>12:09 p</u> STOP <u></u>										
SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>732</u> BATTERY NO. CONTROLLER NO. SENSOR NO.										
SENSOR CONSTANT <u>299/399</u> <u>0.441</u> <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>										
HEIGHT READINGS MTS FT <u>1050</u> <u>1410</u>										
STATION DESCRIPTIONS _____ <u></u> <u></u> <u></u>										
SATELLITE OBSERVATIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>GDOP</th> <th>SATELLITES</th> </tr> </thead> <tbody> <tr> <td><u>1309</u></td> <td><u>3.0</u></td> <td><u>5/6</u></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		TIME	GDOP	SATELLITES	<u>1309</u>	<u>3.0</u>	<u>5/6</u>			
TIME	GDOP	SATELLITES								
<u>1309</u>	<u>3.0</u>	<u>5/6</u>								
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u></u> <u></u>										
SKETCH										
										
<u>previous</u>										

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base

PROJECT 101205/Calibration
OPERATOR MB
DATE 1-21-11

SITE NUMBER 1

SITE NAME 100

TRACKING TIMES (LOCAL) MEASURE ✓

START 12:32 p

STOP

SENSOR TYPE 500 9500 399 299

MEMORY CARD 603

BATTERY NO.

CONTROLLER NO.

SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS:

HEIGHT READINGS MTS FT

962

1328

STATION DESCRIPTIONS:

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1332	2.3	6/8

SKETCH

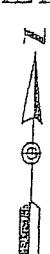


SRE

previous

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CONTROL

PROJECT	1-101205/061haun	SITE NUMBER	1
OPERATOR	M3	SITE NAME	A 595
DATE	1-31-11		
TRACKING TIMES (LOCAL) MEASURE	/	SENSOR TYPE	500 9500 399 299
START	12:51 p	MEMORY CARD	704
STOP	1:21 p	BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	CONTROLLER NO.	
HEIGHT READINGS	MTS -912	SENSOR NO.	
	FT 1.272	OBSERVATIONS:	No obs
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	
1351	2.4	6/6	
1421			
 			
SKETCH			

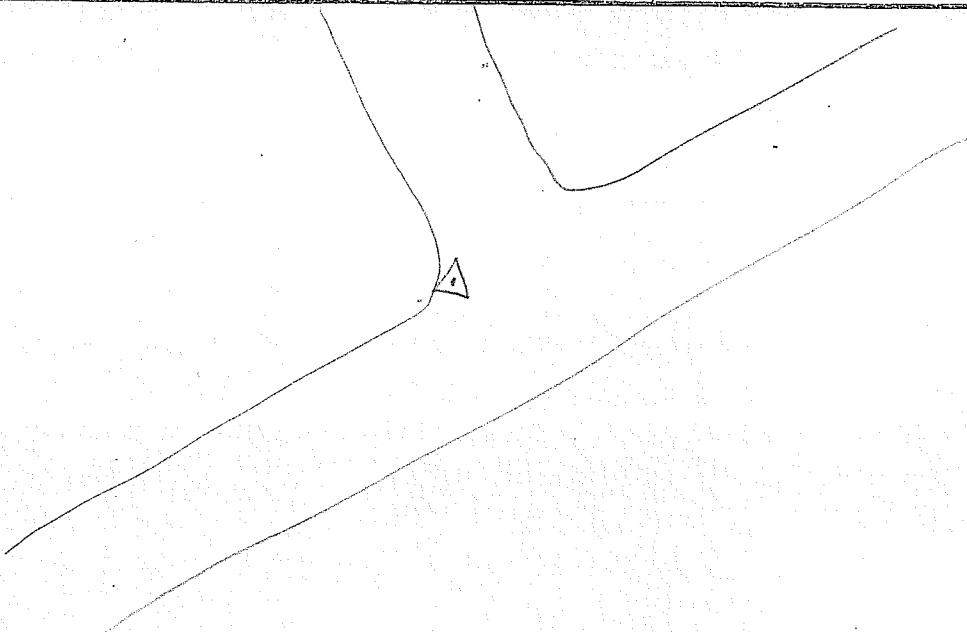
AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

VPT

PROJECT	I-101205 / Calhoun		SITE NUMBER	2
OPERATOR	MS		SITE NAME	61
DATE	1-31-11			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	1:43 p		MEMORY CARD	704
STOP	2:10 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSSTRUCTIONS:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	M-100-100-200
	1.322	1.682		
		1.682		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1571443	1.6	9/11		
1571510				
SKETCH				
<input checked="" type="checkbox"/> <input type="checkbox"/>				

AERO-METRIC, INC.
 4020 TECHNOLOGY PARKWAY
 SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Cal hour		SITE NUMBER	3
OPERATOR	MB		SITE NAME	62
DATE	1-31-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	2:30 p		MEMORY CARD	704
STOP	2:55 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS:	w corner of intersection
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1530	5.4	5/5		
1555				
			SKETCH	
				

AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Calhoun						
OPERATOR	NS		SITE NUMBER 4				
DATE	1-31-11		SITE NAME 63				
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE 500 9500 399 299 MEMORY CARD 704 BATTERY NO. CONTROLLER NO. SENSOR NO.				
START 3:00 p STOP 3:23 p							
SENSOR CONSTANT 299/399 399E/9500 500			0.441 0.389 0.360				
HEIGHT READINGS MTS			OBSTRUCTIONS: none				
1.250 1.610							
STATION DESCRIPTIONS			NW side of road				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
1600	3.6	6/6					
1623							

SKETCH



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Base Control

PROJECT	1-101205 / Colhoun		SITE NUMBER	1
OPERATOR	MS		SITE NAME	LAVA PORT
DATE	2-1-11		SENSOR TYPE	500 9500 399 299
TRACKING TIMES (LOCAL) MEASURE	11		MEMORY CARD	603
START	8:27		BATTERY NO.	CB
STOP			CONTROLLER NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	SENSOR NO.	
HEIGHT READINGS	MTS	FT	OBSSTRUCTIONS:	
		1.014		
		1.374		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
9:27	1.9	8/8		

SKETCH



See

previous

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

(base)

JPT

PROJECT	1-101205 / Calhoun			
OPERATOR	MG		SITE NUMBER	
DATE	2-1-11		SITE NAME	
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE	
START	8:56 a.		500	9500
STOP			399	299
			MEMORY CARD	
			732	
			BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT			OBSTRUCTIONS:	
299/399 399E/9500 500				
0.441 0.389 0.360				
HEIGHT READINGS			STATION DESCRIPTIONS	
MTS				
FT				
.912				
1.272				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
956	2.7	7/7		

SKETCH



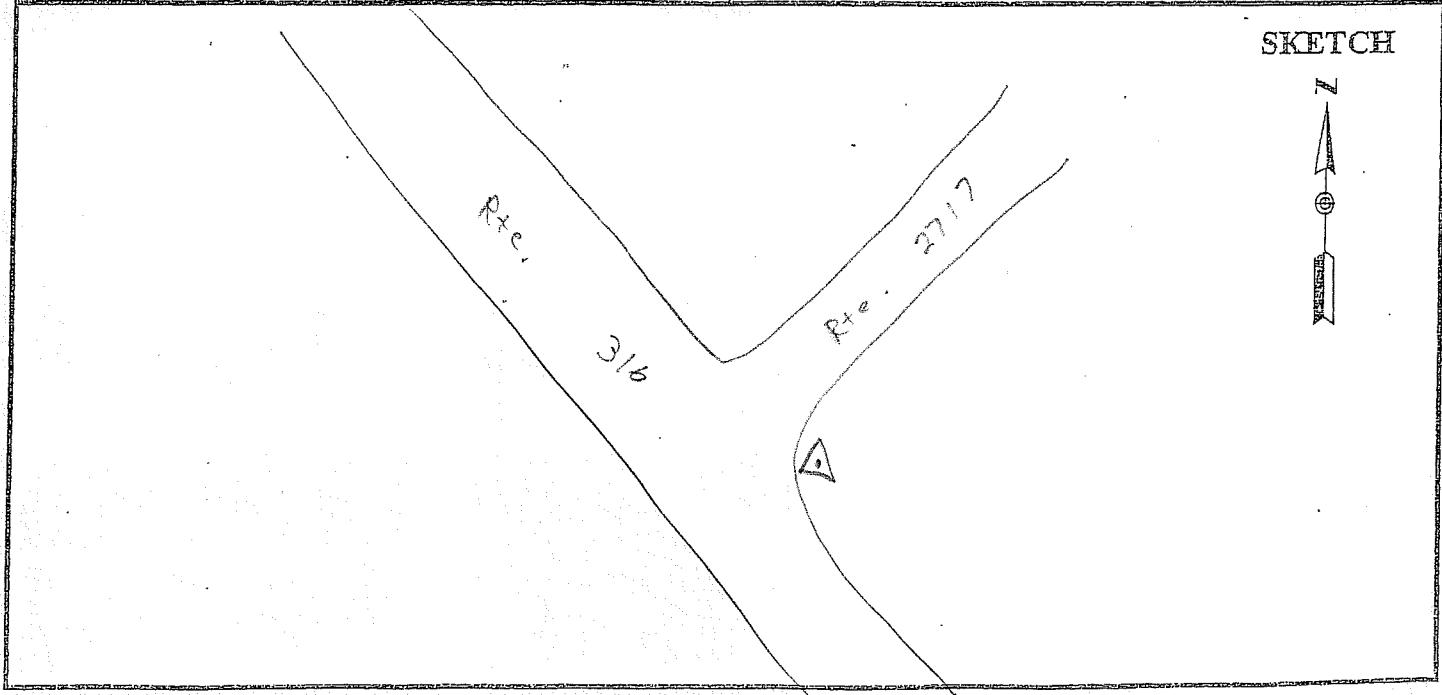
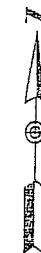
Step
previous

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	1			
OPERATOR	MB		SITE NAME	64			
DATE	2-1-11						
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500	9500	399	299
START	9:23 a.		MEMORY CARD	704			
STOP	9:46 a.		BATTERY NO.				
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.				
SENSOR NO.							
HEIGHT READINGS MTS			OBSTRUCTIONS:	none			
1.102							
1.462							
STATION DESCRIPTIONS							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
1023	3.8	6/6					
1046							

SKETCH

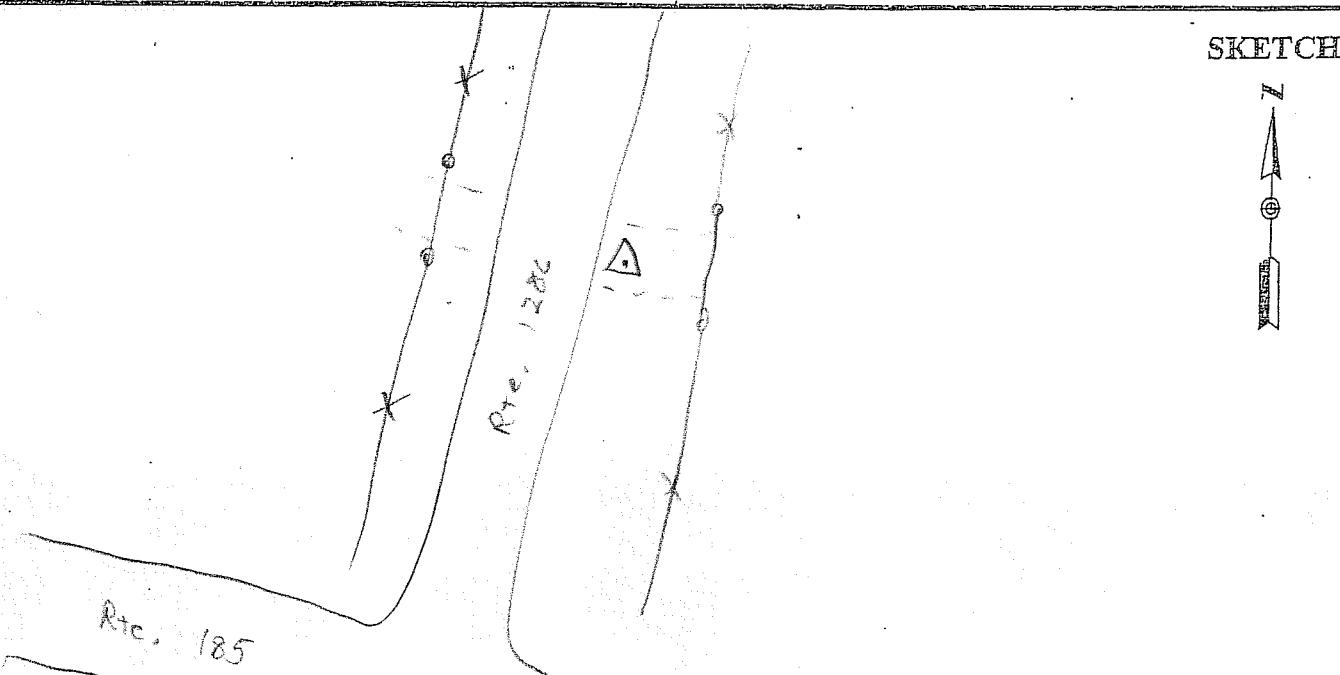


AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

VPT

PROJECT	1-101205 /Cathcart		SITE NUMBER	2
OPERATOR	NG		SITE NAME	65
DATE	2-1-11			
TRACKING TIMES (LOCAL) MEASURE	<u>✓</u>		SENSOR TYPE	500 9500 399 299
START	10:05 a.		MEMORY CARD	704
STOP	10:43 a.		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	<u>1.234</u>	<u>1594</u>	OBSTRUCTIONS:	none
			STATION DESCRIPTIONS	in ranch entrance
			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1105	1.9	9/9		
1143				

SKETCH



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 4020 TECHNOLOGY PARKWAY
 SHEBOYGAN, WISCONSIN 53083

✓PT

PROJECT 1-101205 / Calhoun
 OPERATOR NB
 DATE 2-1-11

SITE NUMBER 3
 SITE NAME 66

TRACKING TIMES (LOCAL) MEASURE _____
 START 10:50 a.
 STOP 11:24 a.

SENSOR TYPE 500 9500 399 299
 MEMORY CARD 704
 BATTERY NO. _____
 CONTROLLER NO. _____
 SENSOR NO. _____

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: none

HEIGHT READINGS MTS FT
1.318 1678

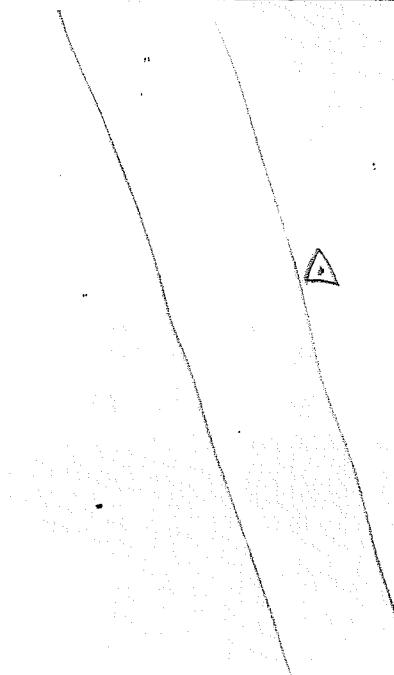
STATION DESCRIPTIONS E. side road

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDO	SATELLITES
1150	4.9	9/9
1324		

SKETCH



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

1/07

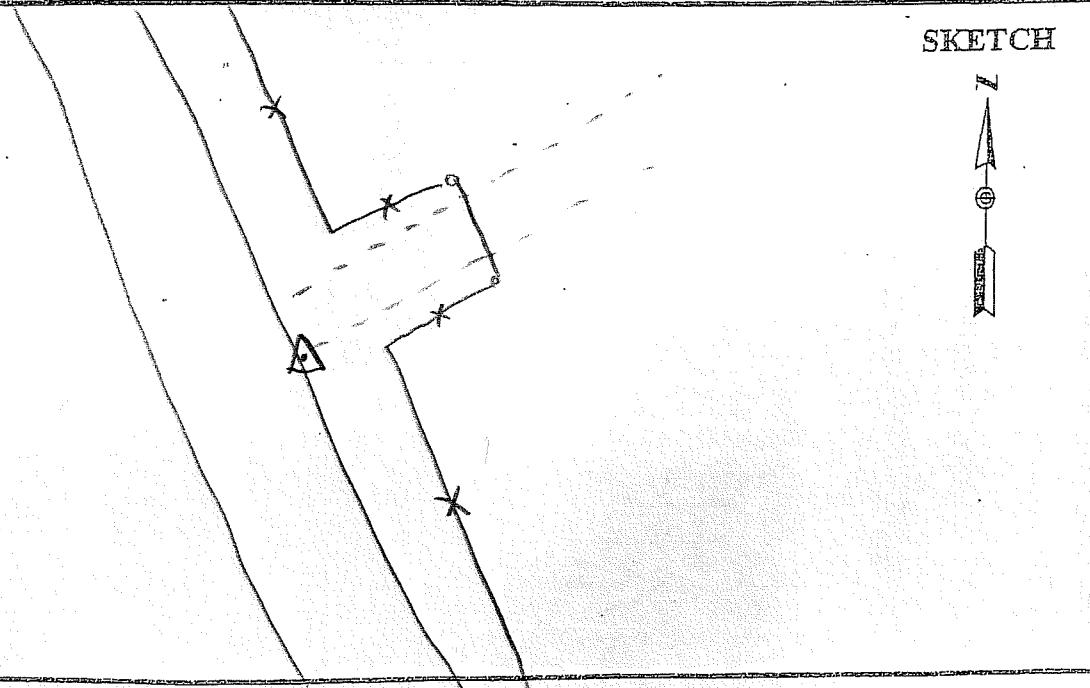
PROJECT	1-101205 /Cathourn		SITE NUMBER	4
OPERATOR	MS		SITE NAME	67
DATE	2-1-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	11:31 a.		MEMORY CARD	704
STOP	12:00 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	<u>1.298</u>	<u>1658</u>	S. side road - E. side entrance	
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1231	5.0	5/5-		
1300				
SKETCH				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

✓ PT

PROJECT	1-101205 / Calhoun			SITE NUMBER	5			
OPERATOR	MB			SITE NAME	68			
DATE	2-1-11							
TRACKING TIMES (LOCAL) MEASURE ✓				SENSOR TYPE	500	9500	399	299
START	12:08 p			MEMORY CARD	704			
STOP	12:35 p			BATTERY NO.				
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.					
HEIGHT READINGS	MTS	FT	SENSOR NO.					
	1.235		OBSERVATIONS:	none				
		1.595	STATION DESCRIPTIONS	E. side road @ S. side entrance				
SATELLITE OBSERVATIONS				WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES						
1308	2.2	7/7						
1335								

SKETCH



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4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Boise JPT

PROJECT <u>1-101205/Cathews</u> OPERATOR <u>M3</u> DATE <u>2-7-8-11</u>	SITE NUMBER <u>1</u> SITE NAME <u>13</u>		
TRACKING TIMES (LOCAL) MEASURE _____ START <u>5:36 p</u> STOP _____		SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>204</u> BATTERY NO. _____ CONTROLLER NO. _____ SENSOR NO. _____	
SENSOR CONSTANT 299/399 <u>0.441</u> <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>		OBSTRUCTIONS: _____ _____ _____ _____	
HEIGHT READINGS MTS <u>990</u> FT <u>1350</u>		STATION DESCRIPTIONS _____ _____ _____ _____	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	
<u>1836</u>	<u>2.6</u>	<u>6/6</u>	

SKETCH

See previous

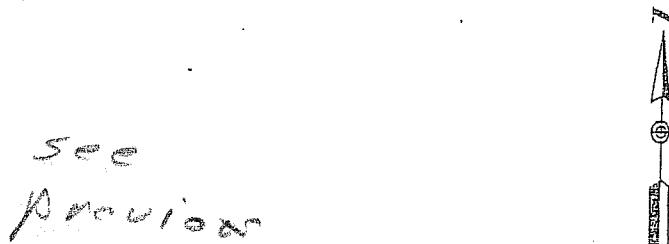


AERO-METRIC, INC.
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Very Poor

PROJECT	1-101205/Cathouse		SITE NUMBER	1
OPERATOR	MS		SITE NAME	15
DATE	2-8-11			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	7:26 a.		MEMORY CARD	731
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	<u>1.285</u>			
		<u>1.645</u>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
826	1.9	9/9		

SKETCH



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✓pt

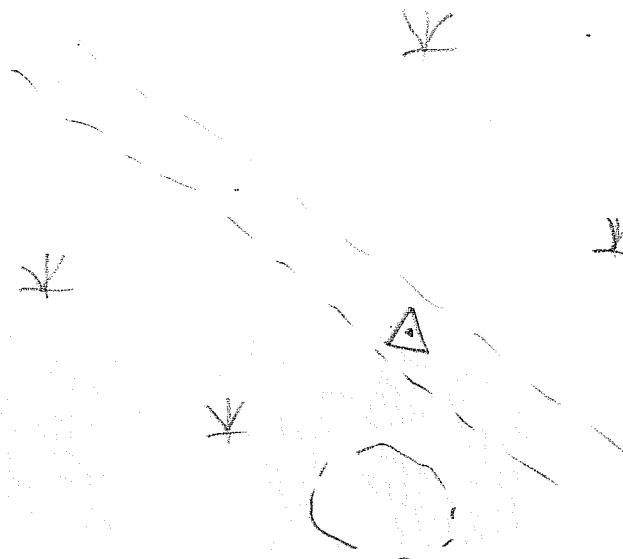
PROJECT	1-1012005/Calhoun						
OPERATOR	MB		SITE NUMBER /				
DATE	2-8-10		SITE NAME 69				
TRACKING TIMES (LOCAL) MEASURE ✓							
START	9:47 a		SENSOR TYPE 500 9500 399 299				
STOP	10:14 a.		MEMORY CARD 732				
			BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT 299/399 399E/9500 500 0.441 0.389 0.360			OBSTRUCTIONS: none				
HEIGHT READINGS MTS FT			STATION DESCRIPTIONS center of 2 track				
1.274 1.634							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDO	SATELLITES					
1047	3.9	4/5					
1114							
SKETCH							

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✓ pt

PROJECT	101205 / Calahan		
OPERATOR	MA		
DATE	2.8.14		
TRACKING TIMES (LOCAL) MEASURE		SITE NUMBER	
START	10:25 a.		
STOP	10:53 a.		
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	SENSOR TYPE 500 9500 399 299 MEMORY CARD 732 BATTERY NO. CONTROLLER NO. SENSOR NO.
HEIGHT READINGS	MTS	FT	OBSTRUCTIONS:
	1.346		
		1708	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES	
1125	2.6	7/7	
1153			

SKETCH



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✓ PT

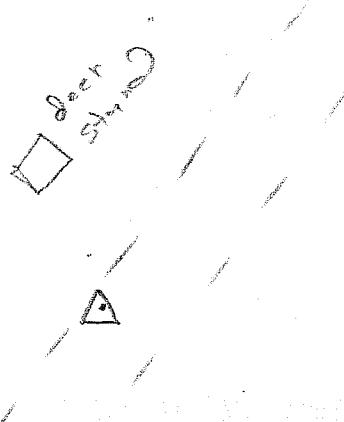
PROJECT	1-101205/Cathson		SITE NUMBER	3
OPERATOR	MB		SITE NAME	71
DATE	2-8-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	11:02 a.		MEMORY CARD	732
STOP	11:30 a.		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	<u>1381</u>	<u>1741</u>	OBSTRUCTIONS:	None
SATELLITE OBSERVATIONS			STATION DESCRIPTIONS in open area	
TIME	GDOP	SATELLITES	WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
1202	2.0	9/9		
1230				

SKETCH



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VPT

PROJECT <u>1-101205 / Colhoun</u> OPERATOR <u>MS</u> DATE <u>2-8-11</u>	SITE NUMBER <u>4</u> SITE NAME <u>72</u>									
TRACKING TIMES (LOCAL) MEASURE <u>✓</u> START <u>11:41 a.</u> STOP <u>12:13 p</u>										
SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>732</u> BATTERY NO. CONTROLLER NO. SENSOR NO.										
SENSOR CONSTANT 299/399 <u>399E/9500</u> <u>500</u>	0.441 <u>0.389</u> <u>0.360</u>									
OBSTRUCTIONS: <u>no obstr</u> <hr/> <hr/> <hr/> <hr/> <hr/>										
HEIGHT READINGS MTS FT <u>1.289</u> <u>1.649</u>										
STATION DESCRIPTIONS <u>NW side road</u> <hr/> <hr/> <hr/> <hr/> <hr/>										
SATELLITE OBSERVATIONS										
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>GDOP</th> <th>SATELLITES</th> </tr> </thead> <tbody> <tr> <td>1241</td> <td>1.9</td> <td>8/8</td> </tr> <tr> <td>1313</td> <td></td> <td></td> </tr> </tbody> </table>		TIME	GDOP	SATELLITES	1241	1.9	8/8	1313		
TIME	GDOP	SATELLITES								
1241	1.9	8/8								
1313										
SKETCH										
										

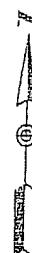
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VPT

PROJECT	1-101205 / Calhoun		SITE NUMBER	5
OPERATOR	MG		SITE NAME	73
DATE	2-8-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	12:23 p		MEMORY CARD	732
STOP	12:55 p		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	<u>1.326</u>		OBSTRUCTIONS:	none
			STATION DESCRIPTIONS	in road at curve
ATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1323	2.2	8/8		
1355				



SKETCH



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VPT

PROJECT	1-101205 / Calhoun		SITE NUMBER	6
OPERATOR	WB		SITE NAME	74
DATE	2-8-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	1:09 p		MEMORY CARD	732
STOP	1:48 p		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	1.222		OBSSTRUCTIONS:	none
SATELLITE OBSERVATIONS			STATION DESCRIPTIONS on runway	
TIME	GDOP	SATELLITES	WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
1409	4.6	7/7		
		/		



SKETCH

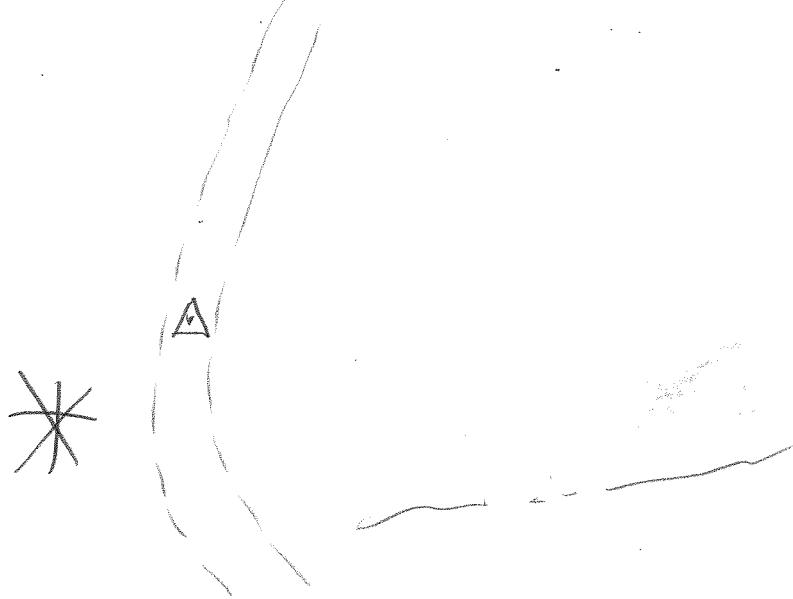


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PROJECT	I-101205/Cathoua		SITE NUMBER	7
OPERATOR	M3		SITE NAME	75
DATE	2-8-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	1:56 p		MEMORY CARD	732
STOP	2:36 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	center of 2 track
	1.355	1715		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
1456	2.1	10/10		
1536				

SKETCH



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Base Control

PROJECT	1-101205 / Colhoun		SITE NUMBER	1
OPERATOR	NB		SITE NAME	LAVAPORT
DATE	2-9-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	9:01a		MEMORY CARD	781
STOP			BATTERY NO.	C6
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.227	1.587		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1001	3.2	8/8		
SKETCH				
<i>See previous</i>				

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Base

JPT

PROJECT	1-101205 / Colhoun		SITE NUMBER	1
OPERATOR	NO		SITE NAME	17
DATE	2-9-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	9:18 a.		MEMORY CARD	603
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500	0.441 0.389 0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS:	
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES		
1018	2.6	8/9		

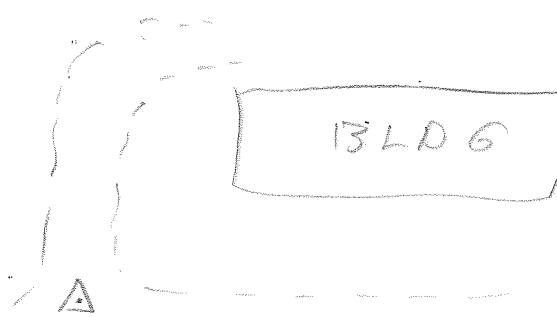
SKETCH



See
Previous

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✓PT

PROJECT <u>I-101205 / Calhoun</u> OPERATOR <u>MG</u> DATE <u>2. 9. 11</u>	SITE NUMBER <u>1</u> SITE NAME <u>76</u>									
TRACKING TIMES (LOCAL) MEASURE <u>✓</u> START <u>9:13 a.</u> STOP <u>9:33 a.</u>										
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360										
HEIGHT READINGS MTS FT <u>1.212</u> <u>1.572</u>										
SATELLITE OBSERVATIONS										
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">TIME</th> <th style="width: 15%;">GDOP</th> <th style="width: 70%;">SATELLITES</th> </tr> </thead> <tbody> <tr> <td><u>1013</u></td> <td><u>4.3</u></td> <td><u>5/5</u></td> </tr> <tr> <td><u>1033</u></td> <td></td> <td></td> </tr> </tbody> </table>		TIME	GDOP	SATELLITES	<u>1013</u>	<u>4.3</u>	<u>5/5</u>	<u>1033</u>		
TIME	GDOP	SATELLITES								
<u>1013</u>	<u>4.3</u>	<u>5/5</u>								
<u>1033</u>										
 SKETCH										
										

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PROJECT	I-101205/Calhoun		SITE NUMBER	2
OPERATOR	MB		SITE NAME	77
DATE	2-9-11			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	9:52 a.		MEMORY CARD	704
STOP	10:15 a.		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	none
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
	1.290			
		1.650		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOPO	SATELLITES		
1052	2.4	9/9		
1115				
SKETCH				

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✓pt

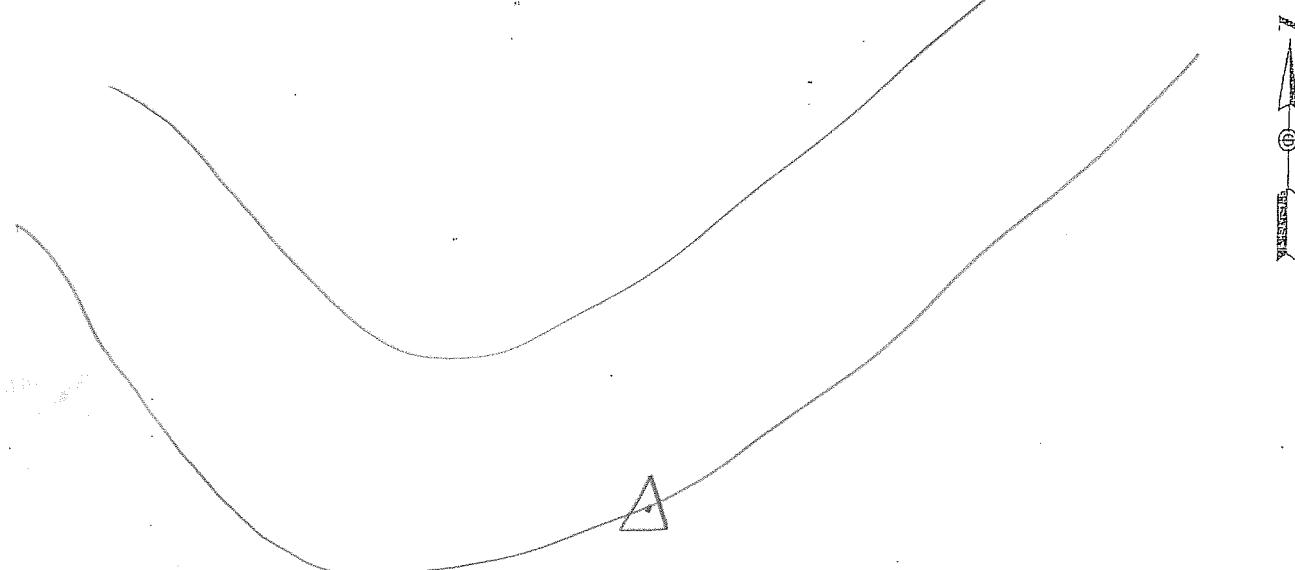
PROJECT	1-101205 / Calhoun		SITE NUMBER	3
OPERATOR	NO		SITE NAME	78
DATE	2.9.11			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	10:24 a.		MEMORY CARD	704
STOP	10:45 a.		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 <u>500</u>	0.441 0.389 <u>0.360</u>	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	w. side road
	<u>1.291</u>	<u>1651</u>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1124	2.6	9/9		
1145				
			SKETCH 	

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✓ AT

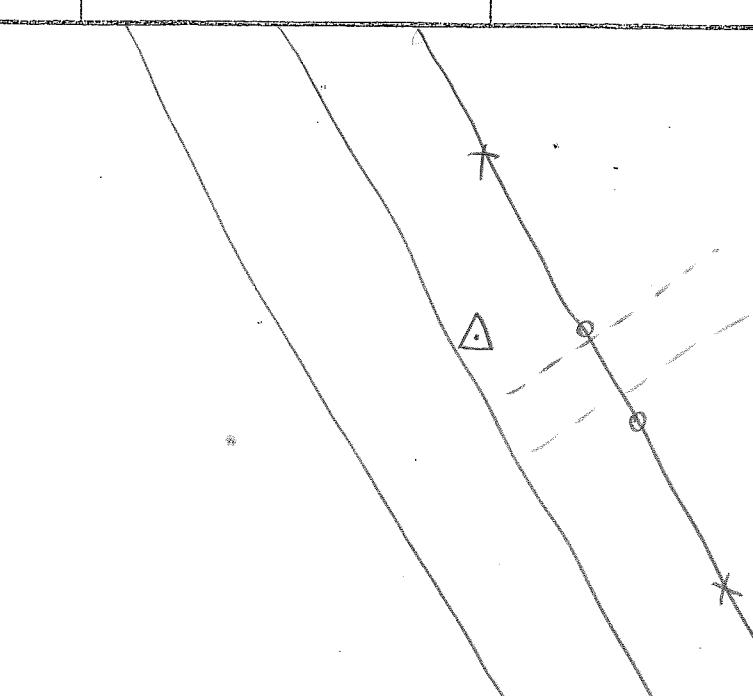
PROJECT	1-101205 / Calhoun		SITE NUMBER	4
OPERATOR	NB		SITE NAME	79
DATE	2-9-11			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	10:51		MEMORY CARD	704
STOP	11:12		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	<u>1.00</u>		OBSTRUCTIONS:	No Obstr
			STATION DESCRIPTIONS	S. side road
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
8/8	2.2	1151		

SKETCH



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✓ PT

PROJECT	I-101205 / Calhoon		SITE NUMBER	5
OPERATOR	MB		SITE NAME	80
DATE	2-9-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	11:22 p		MEMORY CARD	704
STOP	11:45 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS E, side road	
	1.204	1.564		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1222	2.4	6/6		
1245				
			SKETCH	

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✓pt

PROJECT 1-101205 / Calhoun
OPERATOR M9
DATE 2.9.11

SITE NUMBER 6
SITE NAME 81

TRACKING TIMES (LOCAL) MEASURE
START 11:52 a
STOP 12:13 p

SENSOR TYPE 500 9500 399 299
MEMORY CARD 704
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

HEIGHT READINGS MTS FT
1-230 1.590

OBSTRUCTIONS: none

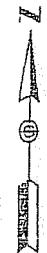
STATION DESCRIPTIONS E. side road

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1252	2.3	7/7
1313		

SKETCH



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PROJECT	1-101205 / Calhoun		SITE NUMBER	7
OPERATOR	WS			
DATE	2-9-11		SITE NAME	
TRACKING TIMES (LOCAL) MEASURE			SENSOR TYPE	500 9500 399 299
START	12:21 p		MEMORY CARD	704
STOP	12:45 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
1.280			E side road	
1.580				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1321	2.2	8/8		
1345				

SKETCH



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✓ PT

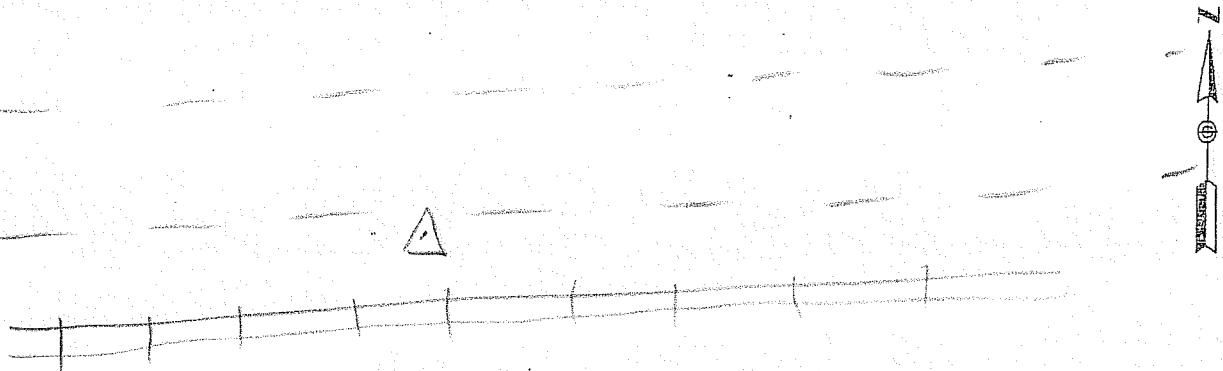
PROJECT	1-101205 / Calhoun		SITE NUMBER	8
OPERATOR	NM			
DATE	2-9-11		SITE NAME	83
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	1:08 p		MEMORY CARD	704
STOP	1:35 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	
	399E/9500	0.389	none	
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS: E. side road	
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1408	3.7	8/9		
1435				
			SKETCH	

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/PT

PROJECT	1-101205 / Calhoun		SITE NUMBER	9
OPERATOR	MB		SITE NAME	84
DATE	2-9-11			
TRACKING TIMES (LOCAL) MEASURE	✓		SENSOR TYPE	500 9500 399 299
START	1:41 p		MEMORY CARD	704
STOP	2:04 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	None
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	S side road
	1.333			
		1.693		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1441	2.2	10/10		
1504				

SKETCH



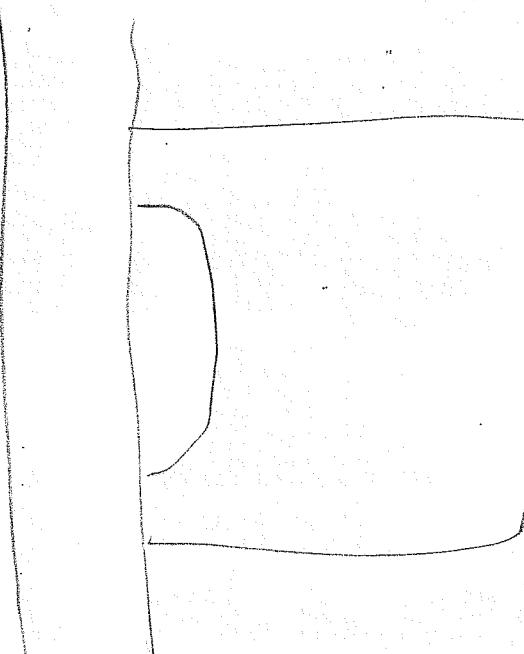
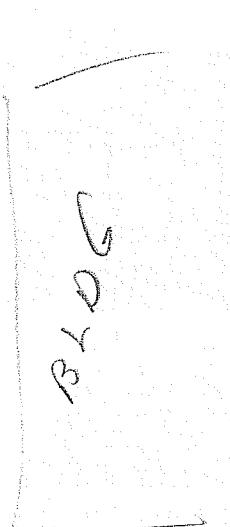
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✓ PT

PROJECT <u>1-101205 / Calhoun</u> OPERATOR <u>M3</u> DATE <u>2-9-11</u>	SITE NUMBER <u>10</u> SITE NAME <u>85</u>	
TRACKING TIMES (LOCAL) MEASURE <u>/</u> START <u>2:09 p</u> STOP <u>2:32 p</u>		
SENSOR TYPE 500 9500 399 299 MEMORY CARD <u>704</u> BATTERY NO. CONTROLLER NO. SENSOR NO.		
SENSOR CONSTANT 299/399 0.441 <u>399E/9500</u> <u>500</u> <u>0.389</u> <u>0.360</u>		
HEIGHT READINGS MTS FT <u>1.337</u> <u>1.697</u>		
OBSTRUCTIONS: <hr/> <hr/> <hr/> <hr/> <hr/>		
STATION DESCRIPTIONS: <hr/> <hr/> <hr/> <hr/> <hr/>		
SATELLITE OBSERVATIONS		
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS		
TIME	GDOP	SATELLITES
1509	2.7	9/9
1532		
		SKETCH

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✓ PT

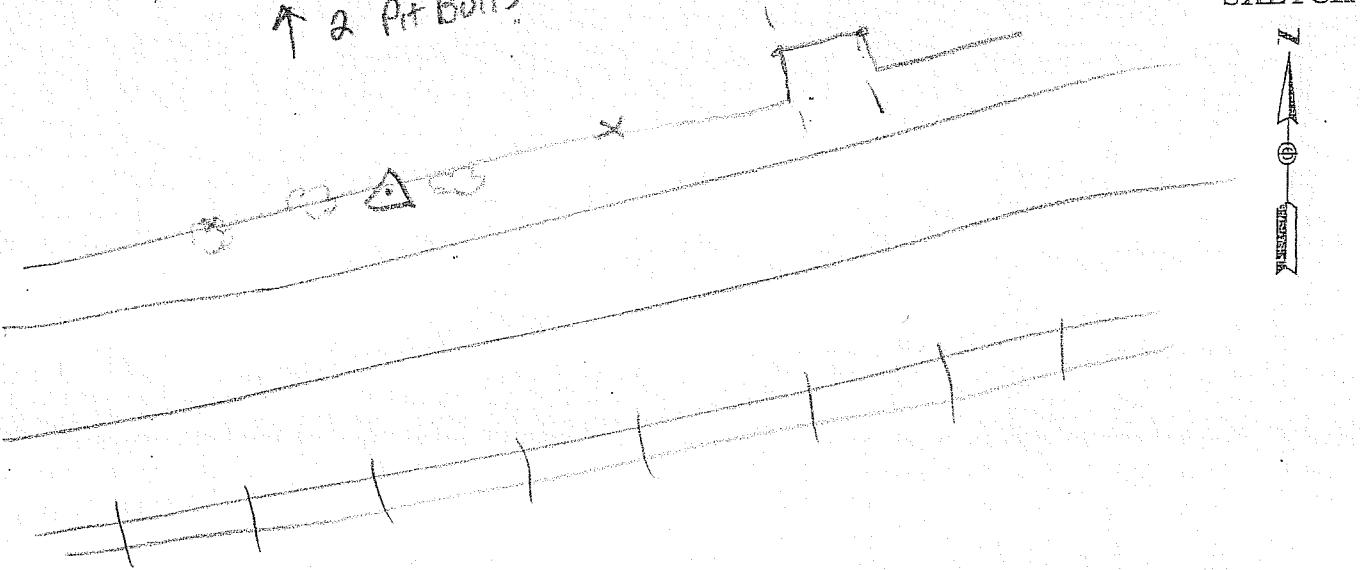
PROJECT	I-101205 / Colhoun		SITE NUMBER	11
OPERATOR	MB		SITE NAME	86
DATE	2.9.11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	2:47 p		MEMORY CARD	704
STOP	3:07 p		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	none
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	E side parking lot
		1.334		
		1.694		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1547	2.3	9/9		
1607				
				
SKETCH				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CONTROL

PROJECT	1-101205 / Calhoun		SITE NUMBER	2
OPERATOR	NO		SITE NAME	A 1257
DATE	2-12-11			
TRACKING TIMES (LOCAL) MEASURE <input checked="" type="checkbox"/>			SENSOR TYPE	500 9500 399 299
START	12:04 p		MEMORY CARD	704
STOP	12:31 p		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
		1378	OBSTRUCTIONS:	sm, trees
		1738	STATION DESCRIPTIONS	cap in PVC pipe
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1304	2.6	6/6		
1331				

↑ 2 Pit Bulls



AERO-METRIC, INC.
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Page

PROJECT	I-106205/Cathorn		SITE NUMBER	1
OPERATOR	NO		SITE NAME	100
DATE	2-12-11			
TRACKING TIMES (LOCAL) MEASURE ✓			SENSOR TYPE	500 9500 399 299
START	9:52 a		MEMORY CARD	731
STOP			BATTERY NO.	CB
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	
1.265				
1.625				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
1052	3.0	4/6		

See
previous

SKETCH



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083 Base

PROJECT <u>1-10 1205 / Calibra</u> OPERATOR <u>M3</u> DATE <u>2-12-11</u>	SITE NUMBER <u>1</u> SITE NAME <u>LAVA PORT</u>									
TRACKING TIMES (LOCAL) MEASURE <u>✓</u> START <u>10:18</u> STOP <u></u>										
SENSOR TYPE <u>500</u> <u>9500</u> <u>399</u> <u>299</u> MEMORY CARD <u>732</u> BATTERY NO. <u>CB</u> CONTROLLER NO. <u></u> SENSOR NO. <u></u>										
SENSOR CONSTANT <u>299/399</u> <u>0.441</u> <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>										
HEIGHT READINGS MTS FT <u>1.399</u> <u>1.759</u>										
OBSTRUCTIONS: <u></u> <u></u> <u></u>										
STATION DESCRIPTIONS: <u></u> <u></u> <u></u>										
SATELLITE OBSERVATIONS										
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">TIME</th> <th style="width: 15%;">GDOP</th> <th style="width: 70%;">SATELLITES</th> </tr> </thead> <tbody> <tr> <td><u>1118</u></td> <td><u>2.5</u></td> <td><u>6/7</u></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		TIME	GDOP	SATELLITES	<u>1118</u>	<u>2.5</u>	<u>6/7</u>			
TIME	GDOP	SATELLITES								
<u>1118</u>	<u>2.5</u>	<u>6/7</u>								
SKETCH										
										

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CONTROL

PROJECT 1-10/205 /Calthaun
OPERATOR MB
DATE 2-12-11

SITE NUMBER 1
SITE NAME E 1258

TRACKING TIMES (LOCAL) MEASURE
START 11:09 a
STOP 11:44 a

SENSOR TYPE 500 9500 399 299
MEMORY CARD 704
BATTERY NO.
CONTROLLER NO.
SENSOR NO.

SENSOR CONSTANT 299/399 0.441
399E/9500 0.389
500 0.360

OBSTRUCTIONS: No no

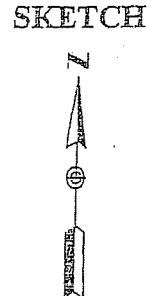
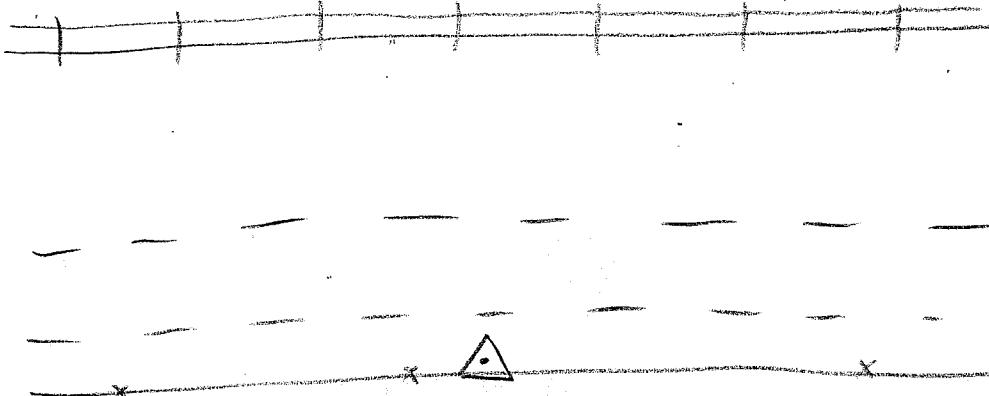
HEIGHT READINGS MTS FT
1.119 1.479

STATION DESCRIPTIONS end cap in
tube w/screw top

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
<u>1209</u>	<u>2.6</u>	<u>7/7</u>
<u>1251</u>		



AERO-METRIC, INC.
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*IN LONG GRASS Z
BASE*

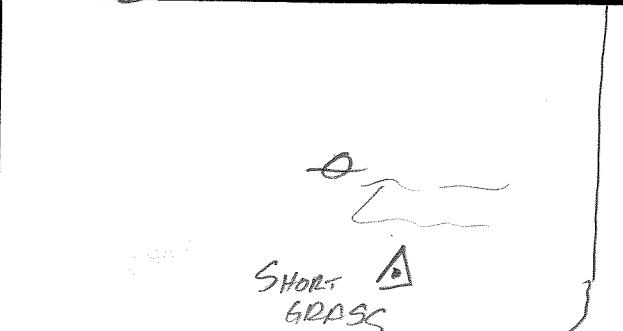
CALHOUN

PROJECT	1101205	SITE NUMBER	1					
OPERATOR	WMN	SITE NAME	87					
DATE	05/19/11							
TRACKING TIMES (LOCAL) MEASURE <i>CDT</i>		SENSOR TYPE	500	9500	399	299		
START	13:20	MEMORY CARD	67					
STOP	17:01	BATTERY NO.						
		CONTROLLER NO.						
		SENSOR NO.						
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: <i>No</i>					
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <i>Set 7'' SPIKE</i>					
<i>1.301</i>								
<i>1.651</i>								
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <i>OVC WINDY</i>					
TIME	GDOP	SATELLITES						
18:20	1.9	9/9-9						
22:01	2.0	818-8						

AERO-METRIC, INC.
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SHORT
GRASS

CALHOUN

PROJECT	1101205		SITE NUMBER	/
OPERATOR	WIN		SITE NAME	88
DATE	5/19/11			
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500 9500 399 299
START	13:30		MEMORY CARD	601
STOP	13:52		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	RPL NW
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	POINT IN SHORT GRASS
	1.292			
	1.642			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	OVC	
18:30	1.9	9/9-9		
18:52	2.3	7/7-7		
			SKETCH 	

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

S-1
SHORT
GRASS

PROJECT	1101205		SITE NUMBER	2			
OPERATOR	WJN		SITE NAME	89			
DATE	5/19/11						
TRACKING TIMES (LOCAL) MEASURE <u>COT</u>			SENSOR TYPE	<input checked="" type="radio"/> 500	9500	399	299
START	13:57		MEMORY CARD				
STOP	19:19		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS: <u>TREES S.</u>				
	399E/9500	0.389					
	500	<input checked="" type="radio"/> 0.360					
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <u>POINT IN</u>				
	1.345		<u>GRASS AREA BEYOND</u>				
			<u>END OF RD.</u>				
1.705							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
13:57	2.3	7/7-7					
19:19	2.1	8/8-8					
SKETCH							

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SHEBOYGAN, WISCONSIN 53083

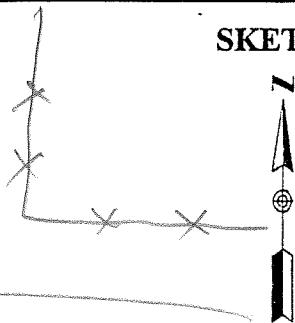
LONG Z
GRASS

CALHOUN

PROJECT	1101205		SITE NUMBER	3
OPERATOR	WJN		SITE NAME	90
DATE	5/19/11			
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	<u>500</u> 9500 399 299
START	14:26		MEMORY CARD	
STOP	14:52		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 <u>0.360</u>	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	<u>1.305</u>		OBSSTRUCTIONS:	<u>NO</u>
			STATION DESCRIPTIONS	<u>POINT IN N/R/W LINE OF E-W RD IN LONG GRASS</u>
			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	<u>OVC WINDY</u>
TIME	GDOP	SATELLITES		
19:26	2.0	9/9-9		
19:52	2.0	9/9-9		

A LONG GRASS

SKETCH



AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

Loamy 2
GRASS

CALHOON

PROJECT	1101205		SITE NUMBER	4
OPERATOR	WJN		SITE NAME	91
DATE	5/19/11			
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500 9500 399 299
START	14:58		MEMORY CARD	
STOP	15:20		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT 299/399 399E/9500 500			OBSSTRUCTIONS:	No
HEIGHT READINGS MTS FT 1.315			STATION DESCRIPTIONS	Point in long grass in R/W
1.675				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES		
14:58	2.2	9/9-9		
15:20	2.4	8/8-9		
			SKETCH 	

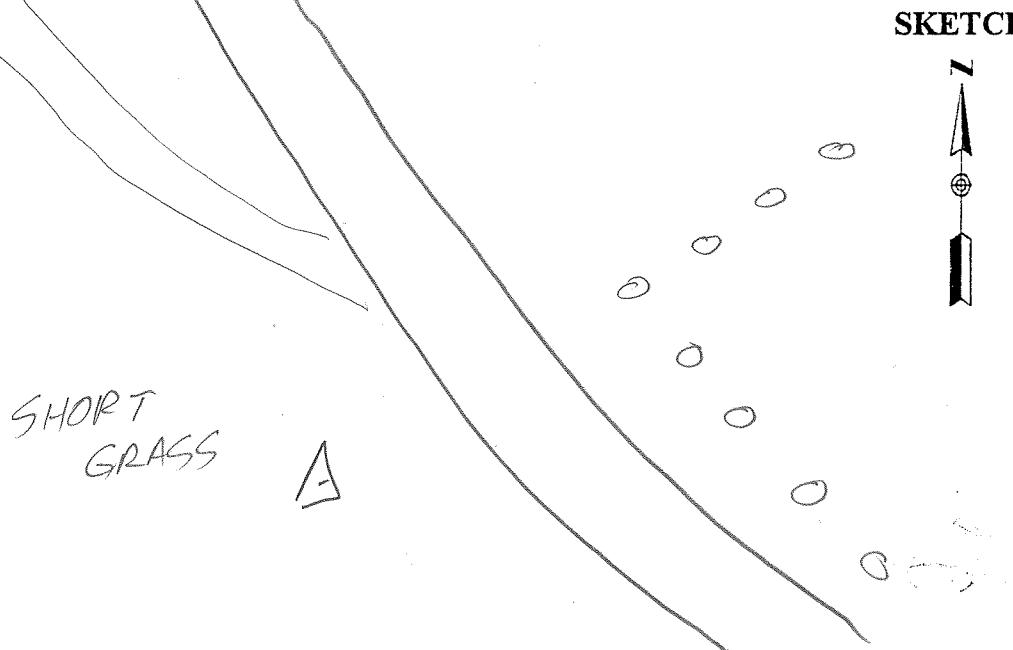
AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

1
SHORT
GRASS

CALHOON

PROJECT	1101205		SITE NUMBER	5
OPERATOR	UNN.		SITE NAME	92
DATE	5/19/11			
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500 9500 399 299
START	14:25		MEMORY CARD	601
STOP	14:47		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSSTRUCTIONS:	NO
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	POINT IN SHORT GRASS
1.257				
1.617				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
			OVC Very Windy	
TIME	GDOP	SATELLITES		
19:25	2.2	8/8-8		
19:47	2.2	8/8-8		

SKETCH



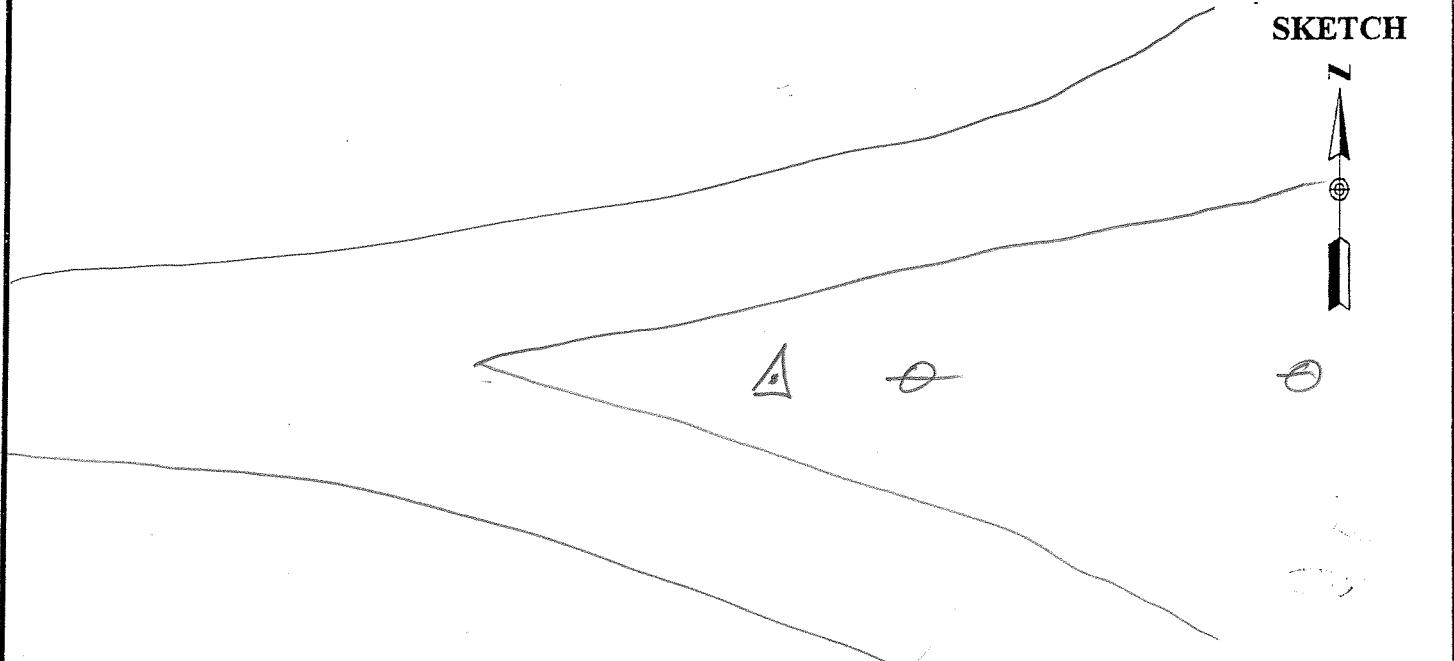
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SHEBOYGAN, WISCONSIN 53083

LONG 2
GRASS

CALHOUN

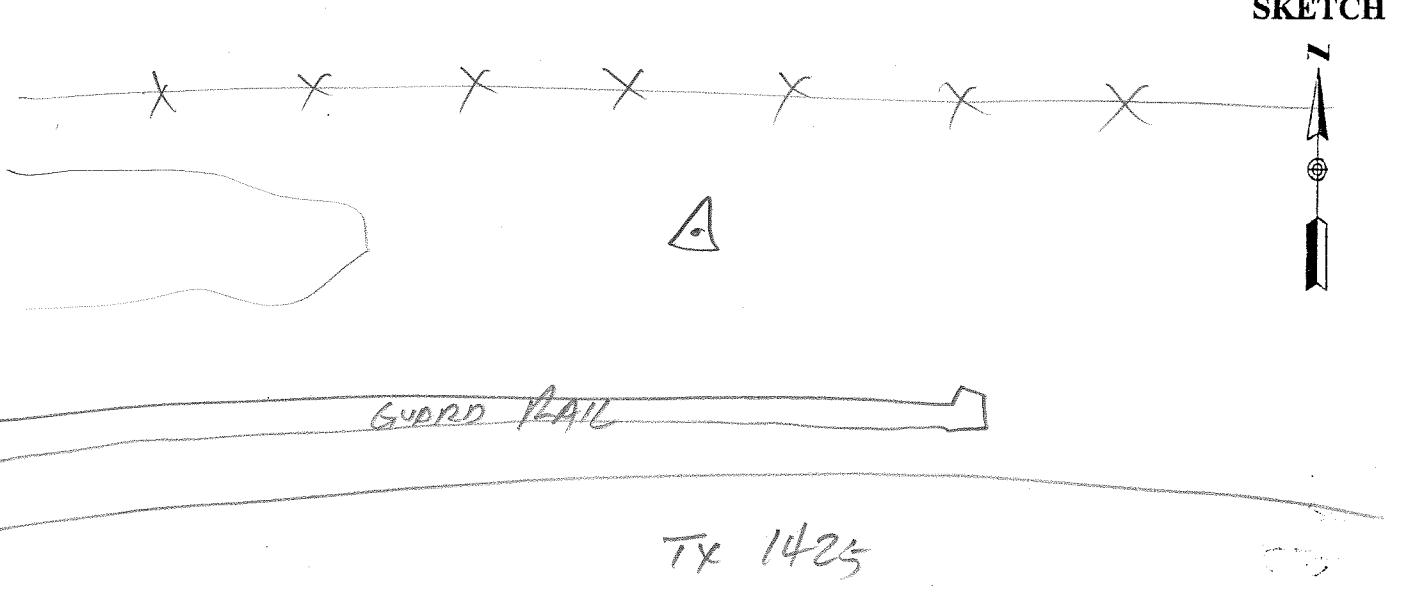
PROJECT	1101205		SITE NUMBER	6
OPERATOR	WJN		SITE NAME	93
DATE	5/19/11			
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500 9500 399 299
START	15:57		MEMORY CARD	
STOP	16:22		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	1.297		OBSSTRUCTIONS:	PPL E
			STATION DESCRIPTIONS	POINT 1N VACANT AREA 25' W OF PPL, IN LINE.
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC Very Windy	
TIME	GDOP	SATELLITES		
10:57	2.7	9/9-9		
21:22	2.3	8/8-8		

SKETCH



AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

Long
GRASS

PROJECT	1101205		SITE NUMBER	7
OPERATOR	WYN		SITE NAME	94
DATE	5/19/04			
TRACKING TIMES (LOCAL) MEASURE <u>COT</u>			SENSOR TYPE	<u>500</u> 9500 399 299
START	<u>16:35</u>		MEMORY CARD	<u>601</u>
STOP	<u>16:55</u>		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 <u>0.360</u>	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	<u>1.325</u>		OBSTRUCTIONS:	<u>1/10</u>
			STATION DESCRIPTIONS	<u>POINT IN</u> <u>LONG GRASS Between</u> <u>GUARD RAIL AND RW FENCE</u>
1.685				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	OVC WINDY	
21:35	2.3	9/9-10		
21:55	2.2	9/9-9		
SKETCH  <p>Guard RAIL</p> <p>TX 1425</p>				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

BASZ

PROJECT	101205		SITE NUMBER	1		
OPERATOR	WIN		SITE NAME	17		
DATE	5/20/11					
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500	9500	<u>399</u> 299
START	8:27		MEMORY CARD	67		
STOP	15:37		BATTERY NO.			
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:	No		
HEIGHT READINGS MTS FT			STATION DESCRIPTIONS	Fd small nail set 12/10/11 by MB		
<u>1.200</u> _____ <u>1.550</u>						
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>OVC</u>			
TIME	GDOP	SATELLITES				
13:27	2.7	9/9-9				
20:37	2.2	9/9-10		-		
<u>Set 12/10/11</u> <u>As Described</u>				SKETCH		
						

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SHEBOYGAN, WISCONSIN 53083

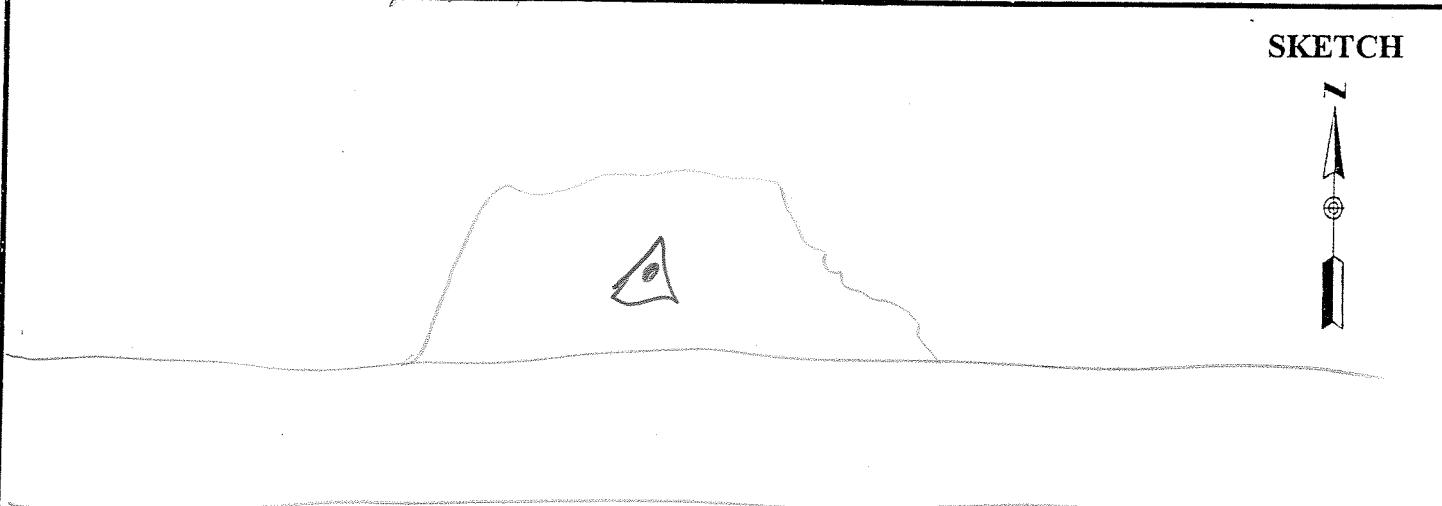
2

CALHOUN

PROJECT	1101205		SITE NUMBER	1			
OPERATOR	<i>MWN</i>		SITE NAME	<i>95</i>			
DATE	<i>5/20/11</i>						
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500	9500	399	299
START	<i>8:32</i>		MEMORY CARD	<i>601</i>			
STOP	<i>8:49</i>		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 <u>0.360</u>	OBSTRUCTIONS:	<i>NO</i>			
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	<i>POINT IN LONG GRASS ± 25' BOTH OF S. EDGE RD</i>			
<i>1.259</i>							
<i>1.619</i>							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
<i>13:32</i>	<i>2.7</i>	<i>9/9-9</i>					
<i>13:49</i>	<i>2.3</i>	<i>10/10-10</i>					
SKETCH							
<p><i>BEACH</i></p> <p><i>N</i></p> <p><i>W</i></p> <p><i>E</i></p> <p><i>S</i></p>							

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CARHOUN

PROJECT	1101205		SITE NUMBER	2			
OPERATOR	WLN		SITE NAME	96			
DATE	5/19/11						
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500	9500	399	299
START	9:02		MEMORY CARD	601			
STOP	9:19		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 <u>0.360</u>			OBSTRUCTIONS: <u>NO</u>				
HEIGHT READINGS MTS FT <u>1.261</u> _____ <u>1.621</u>			STATION DESCRIPTIONS <u>CENTER OF BARE/SPARSE GRASS AREA N. OF E-W RD</u>				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>OVC</u>				
TIME	GDOP	SATELLITES					
9:02	2.3	9/9-9					
9:19	2.1	9/9-9					
SKETCH 							

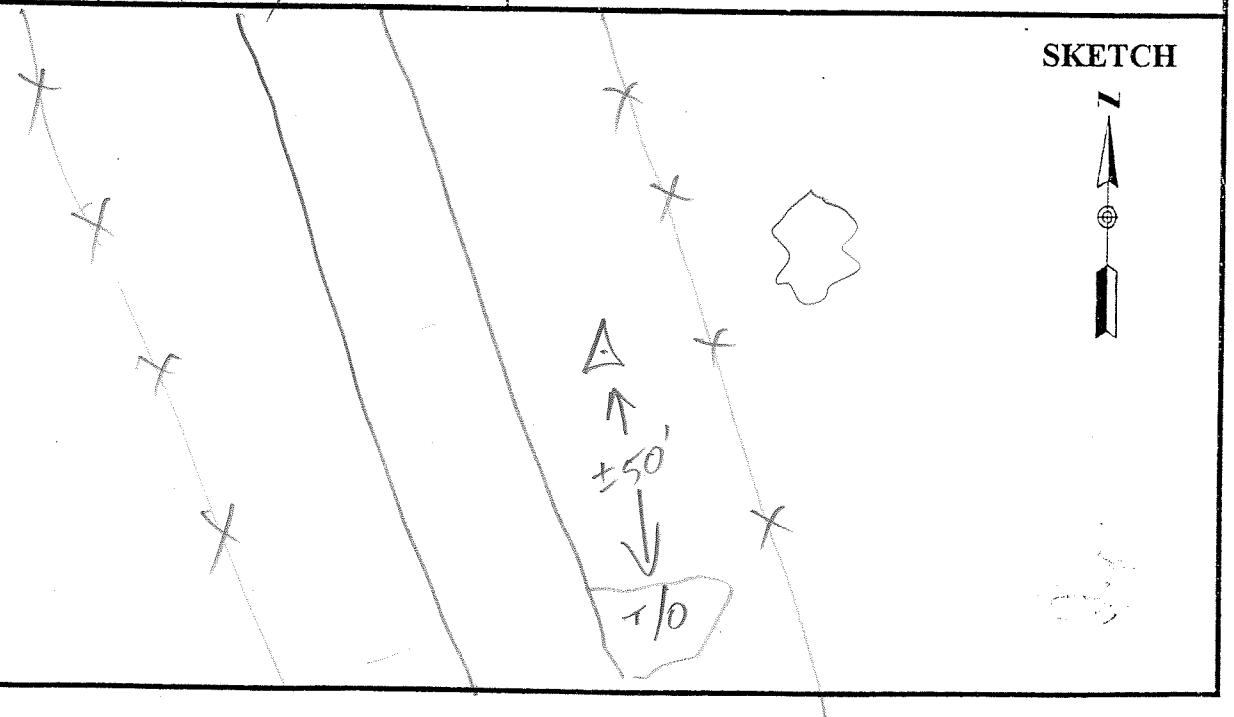
Z

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

COLHOUN

PROJECT	1101205		SITE NUMBER	3
OPERATOR	WJN		SITE NAME	97
DATE	5/20/11			
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500 9500 399 299
START	9:27		MEMORY CARD	601
STOP	9:47		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: <u>NO</u>	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <u>POINT IN</u> <u>LONG GRASS Between</u> <u>ROAD AND E R/W FENCE</u>	
	1.265			
	1.625			

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES	
14 27	1.9	10/10-10	
14 47	2.0	9/9-9	



AERO-METRIC, INC.
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SHEBOYGAN, WISCONSIN 53083

PROJECT	1101205	SITE NUMBER	4
OPERATOR	WJN	SITE NAME	98
DATE	5/19/11		

TRACKING TIMES (LOCAL) MEASURE CDT
 START 9:54
 STOP 10:12

SENSOR TYPE 500 9500 399 299
 MEMORY CARD C60
 BATTERY NO.
 CONTROLLER NO.
 SENSOR NO.

SENSOR CONSTANT 299/399 0.441
 399E/9500 0.389
 500 0.360

OBSTRUCTIONS: No

HEIGHT READINGS MTS FT
1.342 _____
1.702

STATION DESCRIPTIONS POINT IN
CENTER OF SPARSE
GRASS CATTLE TRAIL
N. OF RD.

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

OVC

TIME	GDOP	SATELLITES
1454	2.0	9/9-9
1512	2.0	9/9-9

*COW
TRAIL*

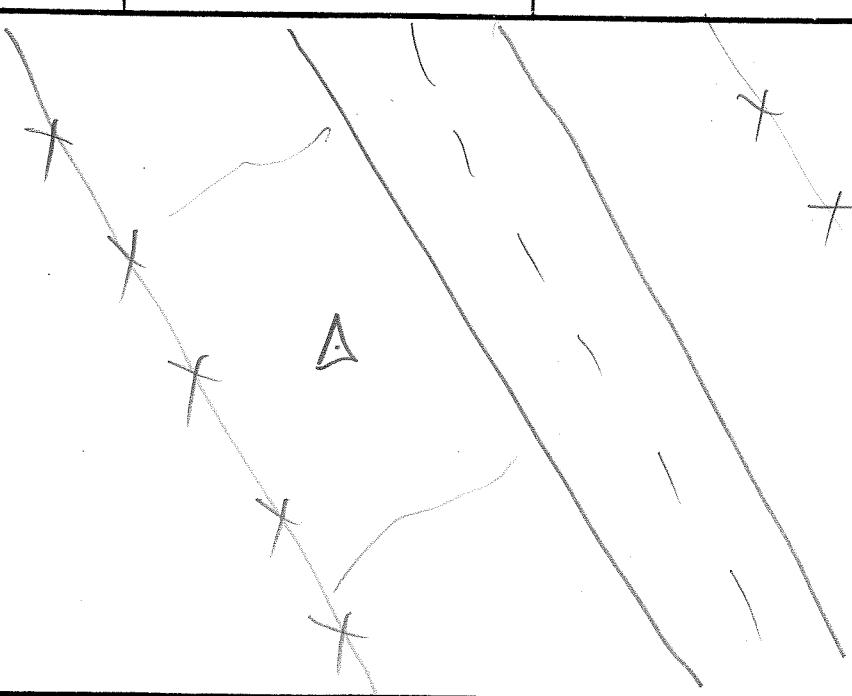
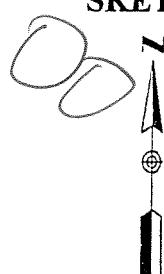
SKETCH



2

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOON

PROJECT <u>1101205</u> OPERATOR <u>WJN</u> DATE <u>5/19/11</u> <u>20</u>	SITE NUMBER <u>5</u> SITE NAME <u>99</u>	
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u> START <u>10:21</u> STOP <u>10:37</u>		
		SENSOR TYPE <u>500</u> 9500 399 299 MEMORY CARD <u>601</u> BATTERY NO. CONTROLLER NO. SENSOR NO.
SENSOR CONSTANT <u>299/399</u> <u>0.441</u> <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>		OBSTRUCTIONS: <u>No</u> <hr/> <hr/> <hr/>
HEIGHT READINGS MTS FT <u>1.294</u> <u></u> <u>1.654</u>		STATION DESCRIPTIONS <u>Point in</u> <u>Long Grass / Scrub mix</u> <u>Between Rd and SW</u> <u>R/W FENCE</u>
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES
<u>15:21</u>	<u>1.9</u>	<u>10/10-10</u>
<u>15:37</u>		
		SKETCH 

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT	1161205		SITE NUMBER		6	
OPERATOR	MMJN		SITE NAME		100	
DATE	5/20/11					
TRACKING TIMES (LOCAL) MEASURE <u>GDT</u>			SENSOR TYPE		500	9500
START	10:48		MEMORY CARD		399 299	
STOP	11:04		BATTERY NO.		<u>601</u>	
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 <u>0.360</u>			OBSTRUCTIONS: <u>N/O</u>			
HEIGHT READINGS MTS FT			STATION DESCRIPTIONS <u>POINT IN</u> <u>SHORT GRASS SW OF</u> <u>RD, SE OF TRAIL AND</u> <u>SW OF Box CULVERT</u>			
1.292 _____ 1.652						
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>OVC</u>			
TIME	GDOP	SATELLITES				
15:46	2.2	7/7-7				
17:04	2.5	7/7-7				
<p style="text-align: center;">POINT IN</p> <p>Very SHORT GRASS</p> <p style="text-align: right;">SKETCH</p>						

2

CALHOUN

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

PROJECT <u>1101205</u> OPERATOR <u>WLN</u> DATE <u>5/20/11</u>	SITE NUMBER <u>7</u> SITE NAME <u>101</u>	
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u> START <u>11:09</u> STOP _____		SENSOR TYPE <u>500</u> 9500 399 299 MEMORY CARD <u>601</u> BATTERY NO. _____ CONTROLLER NO. _____ SENSOR NO. _____
SENSOR CONSTANT <u>299/399</u> <u>0.441</u> <u>399E/9500</u> <u>0.389</u> <u>500</u> <u>0.360</u>		OBSTRUCTIONS: <u>No</u> _____ _____ _____
HEIGHT READINGS MTS FT <u>1-205</u> _____ <u>1.565</u>		STATION DESCRIPTIONS <u>POINT</u> <u>NEAR CENTER OF</u> <u>LARGE INT. ISLAND</u> _____ _____
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>Low Set-up due to wind</u>
TIME	GDOP	SATELLITES
16:09	2.3	8/8-8
16:26	2.2	8/8-8
SKETCH		

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

GAYNOR

PROJECT	1101205		SITE NUMBER	8
OPERATOR	WMN		SITE NAME	102
DATE	5/20/11			
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500 9500 399 299
START	11:37		MEMORY CARD	601
STOP	11:54		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 <u>0.360</u>	OBSTRUCTIONS:	<i>No</i>
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	<i>POINT IN SHORT GRASS IN WT ISLAND</i>
	<u>1.275</u>			
	<u>1.635</u>			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <i>FIRE ANTS!</i>	
TIME	GDOP	SATELLITES		
10:37	2.3	818-8		
16:54	2.2	818-8		

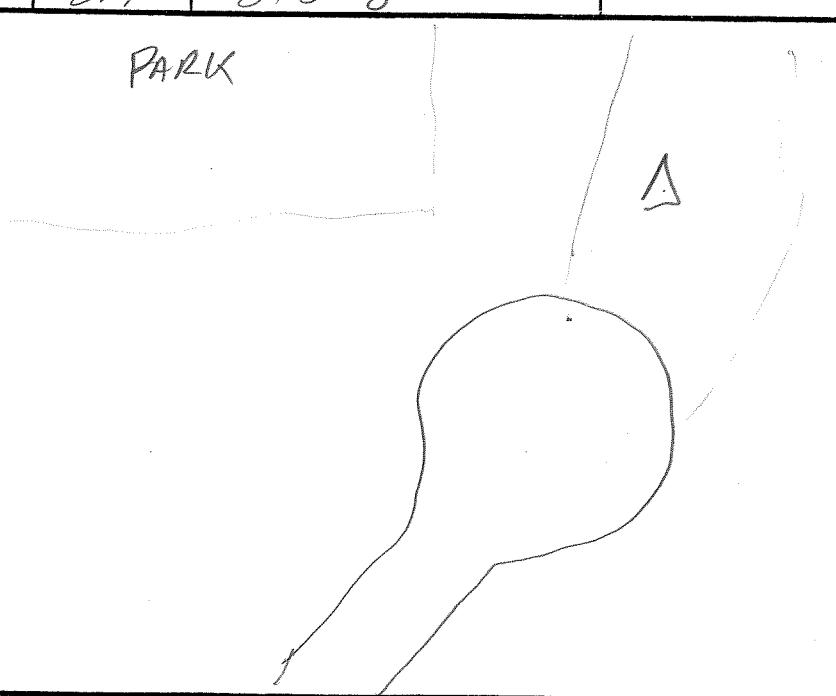
SKETCH



1101205

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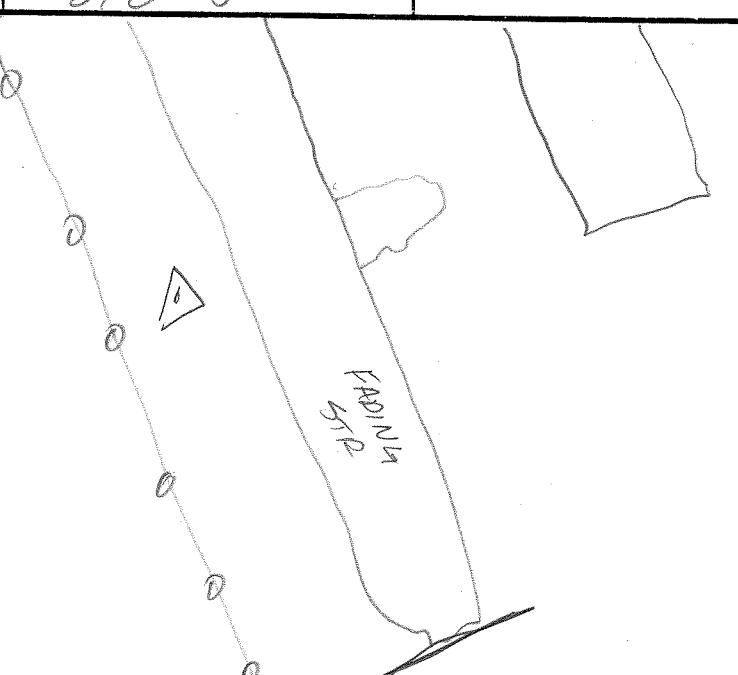
CALHOUN

PROJECT	1101205		SITE NUMBER	9		
OPERATOR	WJN		SITE NAME	103		
DATE	5/20/11					
TRACKING TIMES (LOCAL) MEASURE <i>COT</i>			SENSOR TYPE	500	9500	399
START	12:03		MEMORY CARD	601		
STOP	12:21		BATTERY NO.			
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:	<i>No</i>		
HEIGHT READINGS MTS FT <i>1.301</i> _____ <i>1.661</i>			STATION DESCRIPTIONS	<i>POINT IN VERY SHORT GRASS</i>		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <i>OVC Very Windy</i>			
TIME	GDOP	SATELLITES				
17:03	2.1	8/8-8				
17:21	2.7	8/8-8				
				SKETCH 		

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

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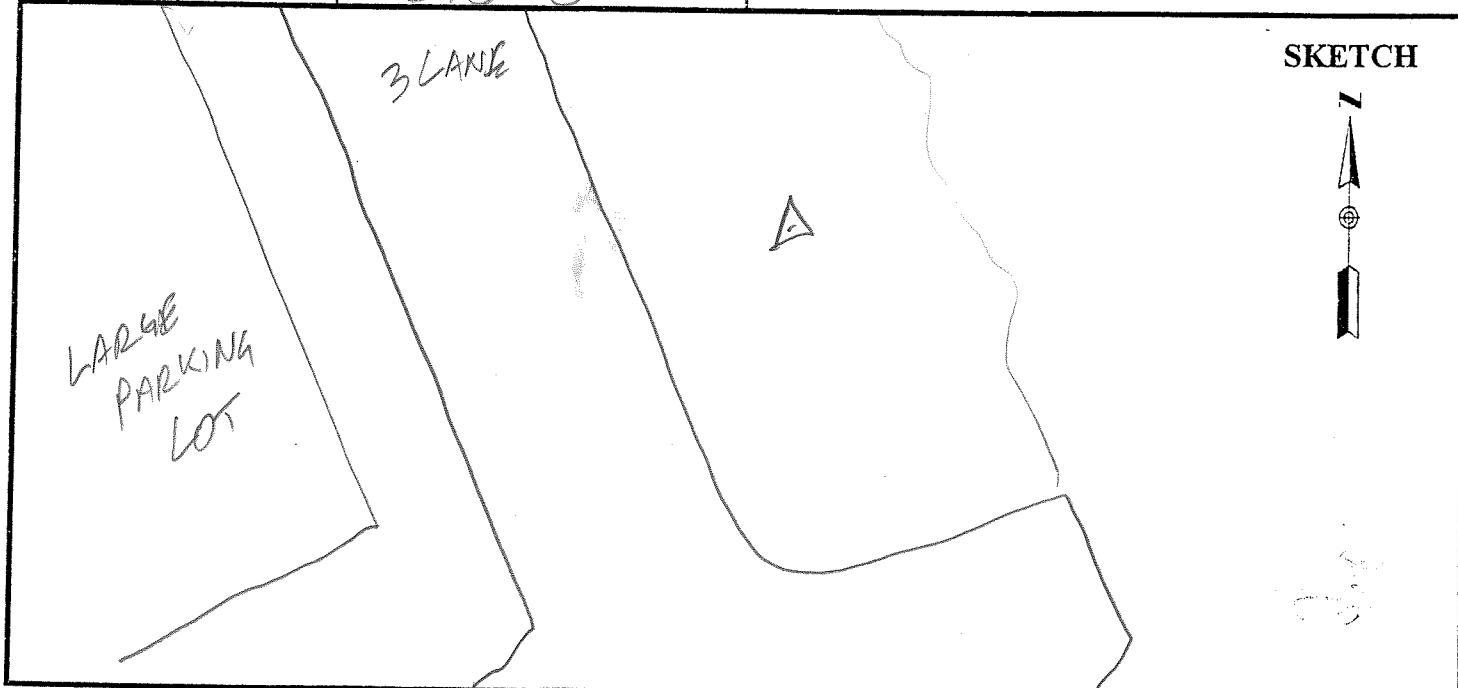
PROJECT <u>1101205</u> OPERATOR <u>MWN</u> DATE <u>5/19/11</u>	SITE NUMBER <u>10</u> SITE NAME <u>104</u>									
TRACKING TIMES (LOCAL) MEASURE <u>COT</u> START <u>12:32</u> STOP <u>12:50</u>										
SENSOR TYPE <u>500</u> 9500 399 299 MEMORY CARD <u>601</u> BATTERY NO. CONTROLLER NO. SENSOR NO.										
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 <u>500</u> <u>0.360</u>										
HEIGHT READINGS MTS FT <u>1.270</u> _____ <u>1.630</u>										
OBSTRUCTIONS: <u>PPL W</u> _____ _____ _____ _____ _____										
STATION DESCRIPTIONS _____ _____ _____ _____ _____										
SATELLITE OBSERVATIONS										
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>OVC Very Windy</u>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>GDOP</th> <th>SATELLITES</th> </tr> </thead> <tbody> <tr> <td>17:32</td> <td>2.5</td> <td><u>8/8-9</u></td> </tr> <tr> <td>17:50</td> <td>2.5</td> <td><u>8/8-8</u></td> </tr> </tbody> </table>		TIME	GDOP	SATELLITES	17:32	2.5	<u>8/8-9</u>	17:50	2.5	<u>8/8-8</u>
TIME	GDOP	SATELLITES								
17:32	2.5	<u>8/8-9</u>								
17:50	2.5	<u>8/8-8</u>								
 <p style="text-align: right;">SKETCH</p>										

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
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CALIBRN

PROJECT	1101205		SITE NUMBER	11
OPERATOR	WIN		SITE NAME	105
DATE	5/19/10			
TRACKING TIMES (LOCAL) MEASURE <i>EST</i>			SENSOR TYPE	500 9500 399 299
START	13:04		MEMORY CARD	601
STOP	13:22		BATTERY NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	CONTROLLER NO.	
HEIGHT READINGS	MTS	FT	SENSOR NO.	
	1.294		OBSTRUCTIONS:	<i>No</i>
			STATION DESCRIPTIONS	<i>POINT IN LONG GRASS/Weeds -27' NE OF NE EDGE PAVEMENT</i>
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	<i>OVC</i>	
13:04	2.0	10/10-10		
13:22	2.3	818-8		



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

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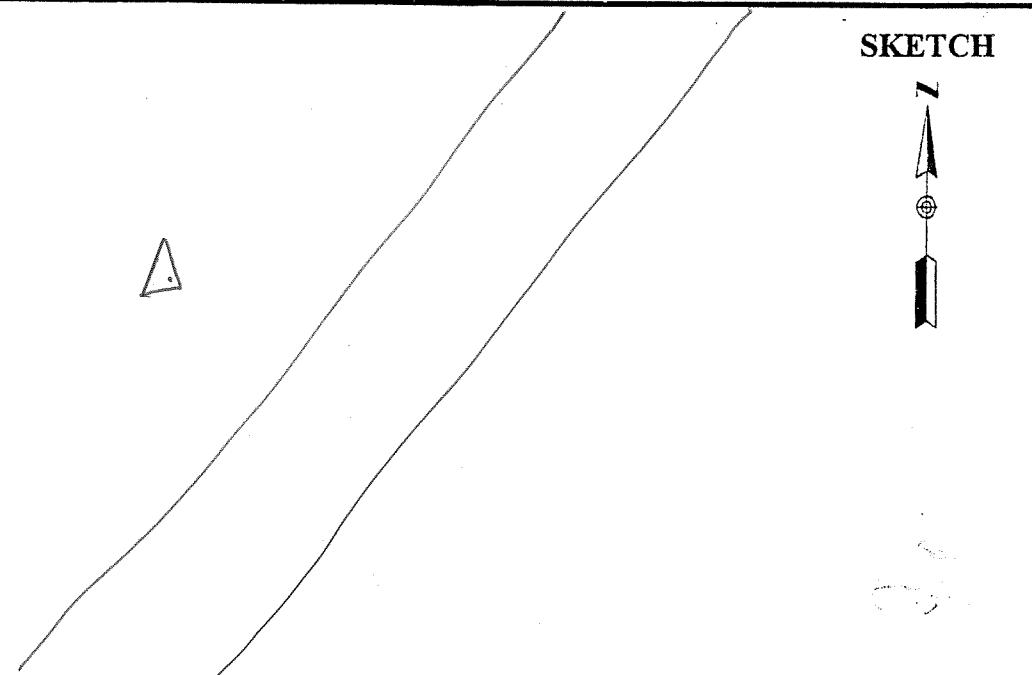
PROJECT	1101105		SITE NUMBER	12			
OPERATOR	WVN		SITE NAME	106			
DATE	5/20/11						
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500	9500	399	299
START	13:32		MEMORY CARD	601			
STOP	13:52		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:	A FEW PALM TREES NW			
HEIGHT READINGS MTS FT			STATION DESCRIPTIONS	POINT IN SHORT GRASS			
1.269 _____ 1.629							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES					
18:32	2.5	7/7-7					
18:52	2.5	7/7-7					
<p style="text-align: center;">SKETCH</p>							

2

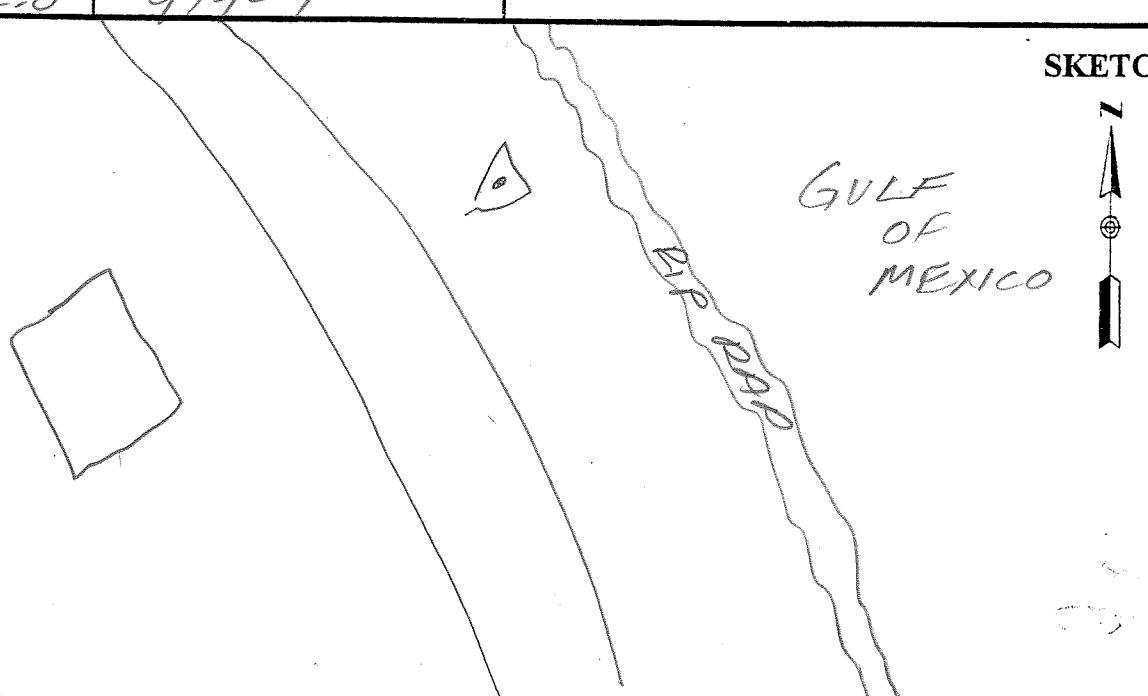
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4020 TECHNOLOGY PARKWAY
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PROJECT	1101205		SITE NUMBER	13			
OPERATOR	LWN		SITE NAME	107			
DATE	3/20/11						
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500	9500	399	299
START	14:29		MEMORY CARD	601			
STOP	14:46		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS: No				
	399E/9500	0.389					
	500	0.360					
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS POINT IN LONG RUSH GRASS NW OF RD				
	1.278						
1.638							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC Very Windy				
TIME	GDOP	SATELLITES					
19:29	2.0	9/9-9					
19:46	2.2	8/8-8					

SKETCH



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PROJECT	1101205		SITE NUMBER	14			
OPERATOR	WAIN		SITE NAME	108			
DATE	5/20/11						
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	<u>500</u>	9500	399	299
START	<u>15:01</u>		MEMORY CARD	<u>601</u>			
STOP	<u>15:25</u>		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:	<u>NO</u> <u>SHORT, THICK SEA GRASS</u> <u>Between Rn AND GULF</u> <u>SHORE RIP RAP & HOUSE SW</u> ^{OPP SE EDGE}			
HEIGHT READINGS MTS FT <u>1.295</u> <u>1.655</u>			STATION DESCRIPTIONS	<u>POINT IN</u> <u>SHORT THICK GRASS</u>			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>OVC, clearing somewhat</u> <u>during session</u>				
TIME	GDOP	SATELLITES					
<u>15:01</u>	<u>2.0</u>	<u>9/9-9</u>					
<u>15:25</u>	<u>2.0</u>	<u>9/9-9</u>					
SKETCH 							

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

BASE

PROJECT	1101205		SITE NUMBER	1
OPERATOR	WMN		SITE NAME	17
DATE	5/21/11			
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500 9500 399 299
START	8:08		MEMORY CARD	67
STOP	15:58		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	NO
	399E/9500	0.389		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	POINT Set 12/11/10
	<u>1.187</u>			
	(1.537)	0.350		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC	
TIME	GDOP	SATELLITES		
13:08	2.2	8/8-8		
20:58	2.2	8/8-9		
As described				
SKETCH				

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62613533

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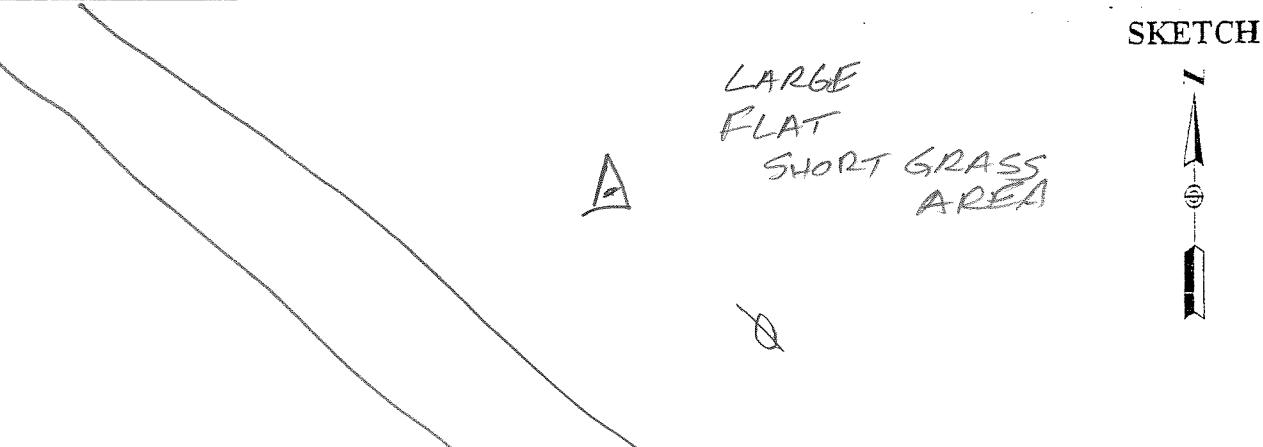
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BASE

PROJECT	1101205		SITE NUMBER	1
OPERATOR	JWN		SITE NAME	13
DATE	5/21/11			
TRACKING TIMES (LOCAL) MEASURE <i>COT</i>			SENSOR TYPE	500 <i>9500</i> 399 299
START	9:06		MEMORY CARD	101
STOP	15:18		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS: No	
	399E/9500	<i>0.389</i>		
	500	0.360		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <i>Point Set</i>	
	<i>10192</i>		<i>12/11/10</i>	
1.581 AT 302				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <i>OVC</i>	
TIME	GDO	SATELLITES		
14:06	2.2	818-8		
20:18	2.1	919-9		
<i>As described</i>				
SKETCH				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Calhoun

PROJECT	1101205		SITE NUMBER	1
OPERATOR	W.J.N		SITE NAME	109
DATE	5/20/11 21			
TRACKING TIMES (LOCAL) MEASURE <u>COT</u>			SENSOR TYPE	500 9500 399 299
START	9:10		MEMORY CARD	601
STOP	9:40		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: <u>NO</u>	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <u>POINT IN</u> <u>SHORT GRASS</u>	
1301				
1-661				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC	
TIME	GDOP	SATELLITES		
14:10	2.0	8/8-8		
19:40	2.0	8/8-8		
 <p>SKETCH</p> <p>LARGE FLAT SHORT GRASS AREA</p> <p>N</p>				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT	1101205		SITE NUMBER	2		
OPERATOR	WJN		SITE NAME	110		
DATE	5/21/11					
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500	9500	399
START	9:56		MEMORY CARD	601		
STOP	10:24		BATTERY NO.			
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:	No		
HEIGHT READINGS MTS FT <u>1.278</u> _____ <u>1.638</u>			STATION DESCRIPTIONS	POINT IN SHORT GRASS NE OF HWY		
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC			
TIME	GDOP	SATELLITES				
14:56	2.1	919-9				
15:24	2.2	818-8				
SKETCH						

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

2

CALHOON

PROJECT OPERATOR DATE	1101205 WJN 5/21/11	SITE NUMBER SITE NAME	3 111
TRACKING TIMES (LOCAL) MEASURE <i>CNT</i> START <u>10:31</u> STOP <u>10:58</u>		SENSOR TYPE MEMORY CARD BATTERY NO. CONTROLLER NO. SENSOR NO.	500 9500 399 299 <i>601</i>
SENSOR CONSTANT 299/399 399E/9500 500		OBSTRUCTIONS:	
HEIGHT READINGS MTS <u>1.252</u>		FT	STATION DESCRIPTIONS <u>POINT IN LONG TIM GRASS INSE R/W.</u>
<i>1.612</i>			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>OVC</u>
TIME	GDOP	SATELLITES	
15:31	1.9	9/9-9	
15:58	2.0	9/9-9	
			SKETCH

AERO-METRIC, INC.
4620 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT	1101205		SITE NUMBER	4
OPERATOR	WMN		SITE NAME	112
DATE	5/21/11			
TRACKING TIMES (LOCAL) MEASURE <i>CDT</i>			SENSOR TYPE	500 9500 399 299
START	11:06		MEMORY CARD	<i>601</i>
STOP	11:30		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	
	399E/9500	0.389		
	500	<i>0.360</i>		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <i>POINT IN SPARSE GRASS, BROKEN EARTH SW OF HWY IN P/LW</i>	
	<i>1.307</i>			
<i>1.667</i>				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <i>OVC</i>	
TIME	GDOP	SATELLITES		
16:06	2.0	9/9-9		
16:30	2.1	9/9-9		
SKETCH				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

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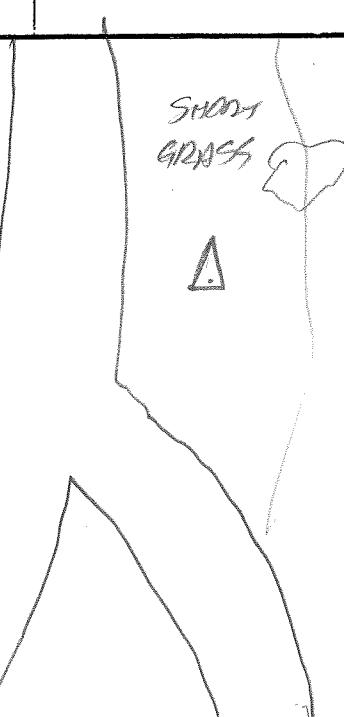
CALHOUN

PROJECT	<u>1101205</u>		SITE NUMBER	<u>5</u>		
OPERATOR	<u>WW</u>		SITE NAME	<u>113</u>		
DATE	<u>5/21/11</u>					
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	<u>-500</u>	9500	399
START	<u>11:38</u>		MEMORY CARD	<u>601</u>		
STOP	<u>11:58</u>		BATTERY NO.			
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	<u>NO</u>		
	399E/9500	0.389				
	500	0.360				
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	<u>POINT IN LONG GRASS ±12' SE OF R/W FENCE AND OPP SW END HEDGE NW</u>		
<u>1.255</u>						
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS			
			<u>OVC, clearing</u>			
TIME	GDOPO	SATELLITES				
<u>16 38</u>	<u>2.0</u>	<u>9/9-9</u>				
<u>16 58</u>	<u>2.0</u>	<u>9/9-9</u>				
SKETCH						

AERO-METRIC, INC.
4026 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

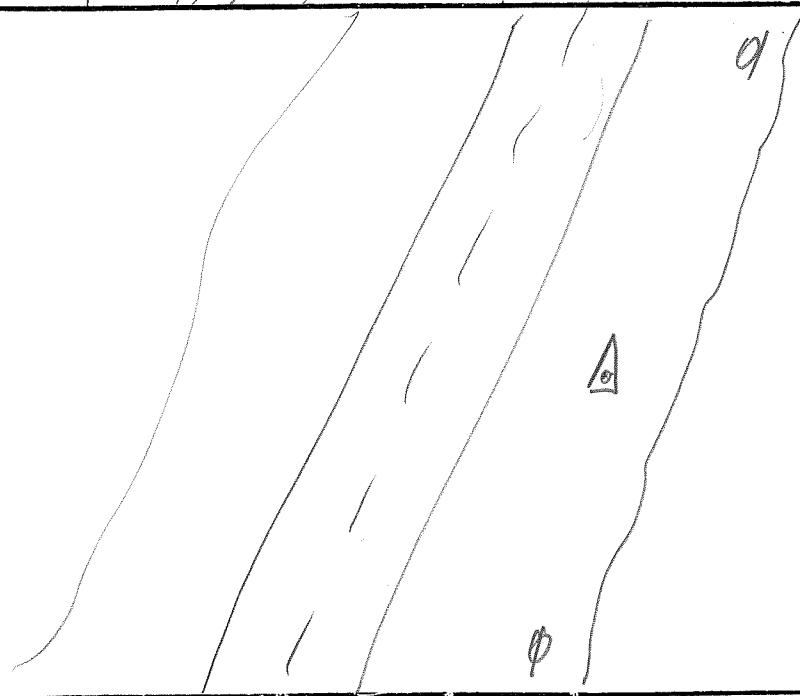
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PROJECT OPERATOR DATE	1101205 <i>4WN</i> 5/21/11	SITE NUMBER SITE NAME	6 <i>114</i>
TRACKING TIMES (LOCAL) MEASURE <i>CDT</i> START <i>12:05</i> STOP <i>12:25</i>		SENSOR TYPE MEMORY CARD BATTERY NO. CONTROLLER NO. SENSOR NO.	<i>500</i> 9500 399 299 <i>1001</i>
SENSOR CONSTANT 299/399 399E/9500 500 <i>0.441</i> <i>0.389</i> <i>0.360</i>		OBSTRUCTIONS: <i>No</i>	
HEIGHT READINGS MTS FT <i>1.266</i> _____ <i>1.626</i>		STATION DESCRIPTIONS <i>POINT IN SHORT GRASS NE OF INT.</i>	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDOP	SATELLITES	
17:05	2.9	<i>9/9-9</i>	
17:25	2.0	<i>9/9-9</i>	
<i>Sketch</i>			

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOON

PROJECT	1101205		SITE NUMBER	7
OPERATOR	MW		SITE NAME	115
DATE	5/21/11			
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500 9500 399 299
START	12:33		MEMORY CARD	601
STOP	12:53		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	NO
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	POINT IN SHORT GRASS SE OF MAY IN PLW
	1.304			
	1.664			
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS DVC	
TIME	GDOP	SATELLITES		
17:33	2.2	3/8-9		
17:53	2.0	9/9-9		



SKETCH

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AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT OPERATOR DATE	1101205 WDN 5/21/11	SITE NUMBER SITE NAME	8 116
TRACKING TIMES (LOCAL) MEASURE CDT START 13:05 STOP 13:27		SENSOR TYPE MEMORY CARD BATTERY NO. CONTROLLER NO. SENSOR NO.	500 9500 399 299 601
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360		OBSTRUCTIONS: No	
HEIGHT READINGS MTS FT 1.295 _____ 1.655		STATION DESCRIPTIONS POINT IN Long Grass @ Center of Laser Approach	
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC
TIME	GDOP	SATELLITES	
18:05	2.2	919-9	
18:27	2.2	818-8	
			SKETCH 

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

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PROJECT	1101205		SITE NUMBER	9
OPERATOR	WN		SITE NAME	117
DATE	5/21/11			
TRACKING TIMES (LOCAL) MEASURE <i>COT</i>			SENSOR TYPE	500 9500 399 299
START	13:36		MEMORY CARD	601
STOP			BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360			OBSTRUCTIONS:	<i>NO</i>
HEIGHT READINGS MTS FT <i>1.286</i> _____ <i>1.646</i>			STATION DESCRIPTIONS	<i>POINT IN LONG WEED/GRASS MIX 6' NE OF SW R/W FENCE</i>
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <i>OVC</i>	
TIME	GDOP	SATELLITES		
13:36	2.2	7/7-7		
13:58	2.2	8/8-8		

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

Z

CALHOUN

PROJECT	1101205		SITE NUMBER	10		
OPERATOR	WNN		SITE NAME	118		
DATE	5/21/11					
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500	9500	399
START	14:08		MEMORY CARD	601		
STOP	14:30		BATTERY NO.			
			CONTROLLER NO.			
			SENSOR NO.			
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:	No		
	399E/9500	0.389				
	500	0.360				
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	POINT IN TALL NEEDLE GRASS IN A/W, 120' NE OF FENCE		
1.305						
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS OVC WINDY			
TIME	GDOP	SATELLITES				
19:08	1.9	8/7-8				
19:30	2.0	8/8-8				
SKETCH						

AERO-METRIC, INC.
4026 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

1

PROJECT	1101205	SITE NUMBER	11	
OPERATOR	WJN	SITE NAME	119	
DATE	5/21/11			
TRACKING TIMES (LOCAL) MEASURE <u>CST</u>		SENSOR TYPE	500	9500
START	14:40	MEMORY CARD	601	399
STOP	15:02	BATTERY NO.	299	
		CONTROLLER NO.		
		SENSOR NO.		
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: No	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS: POINT IN CENTER OF LARGE Approach, IN SHORT GRASS	
<u>1.366</u>				
1-726				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
			OVC	
TIME	GDO	SATELLITES		
19:40	1.9	8/7-8	HIGH SET-UP	
20:02	2.0	9/9-9		
<p>SKETCH</p>				

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

BASE

PROJECT	1101201	SITE NUMBER	1
OPERATOR	WJN	SITE NAME	100 C
DATE	5/22/11		
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u> START <u>8:26</u> STOP <u>13:06</u>		SENSOR TYPE	500 9500 399 299
		MEMORY CARD	67
		BATTERY NO.	
		CONTROLLER NO.	
		SENSOR NO.	
SENSOR CONSTANT 299/399 0.441 399E/9500 0.389 500 0.360		OBSTRUCTIONS: <u>NO</u>	
HEIGHT READINGS MTS FT <u>1.099</u> _____ <u>1.449</u>		STATION DESCRIPTIONS <u>SMALL NAR</u> <u>SET 12/9/10</u>	
SATELLITE OBSERVATIONS		WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>THIS POINT WAS ORIG.</u> <u>CALLED 100, SINCE</u> <u>THE SCHEME OF NUMBERING</u> <u>WAS ORIGINALLY BROKEN</u>	
TIME	GDO	SATELLITES	SKETCH
13:26	2.7	9/9-9	
13:06	2.0	9/9-9	
As BEFORE DESCRIBED			

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT	1101205
OPERATOR	WJN
DATE	5/22/11

SITE NUMBER _____
SITE NAME 120

TRACKING TIMES (LOCAL) MEASURE CIT

START	<u>8:34</u>
STOP	<u>9:00</u>

SENSOR TYPE	500	9500	399	299
MEMORY CARD	601			
BATTERY NO.				
CONTROLLER NO.				
SENSOR NO.				

SENSOR CONSTANT 299/399 0.441
 399E/9500 0.389
 500 0.360

OBSSTRUCTIONS: NO

HEIGHT READINGS	MTS	FT
<u>1.255</u>		
<u>1.615</u>		

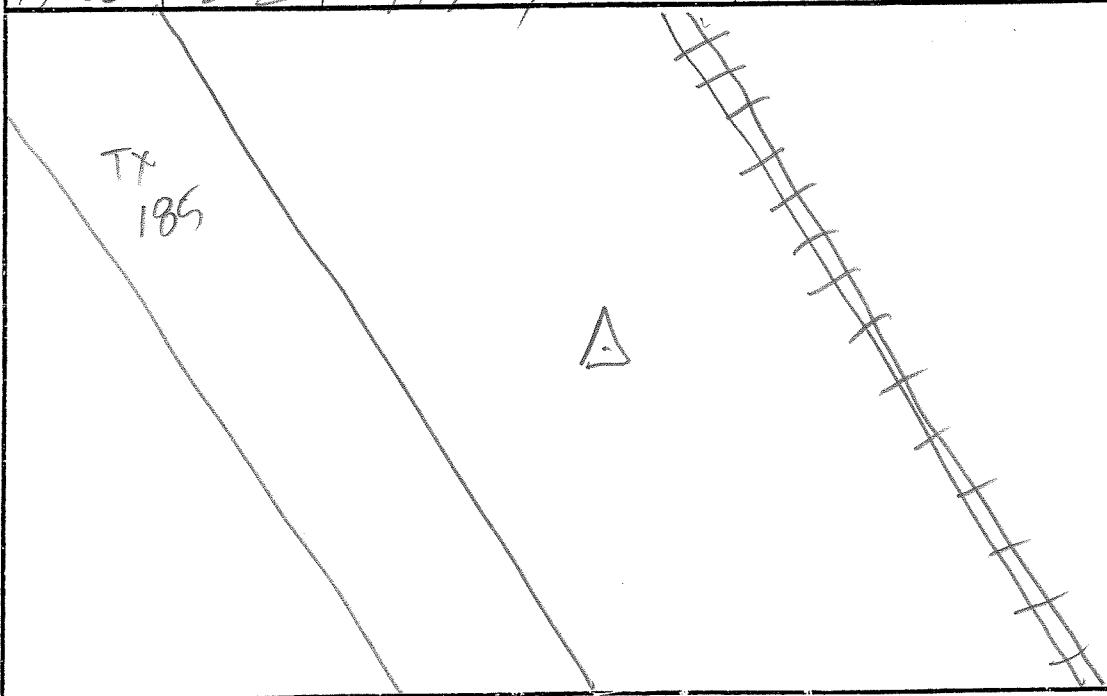
STATION DESCRIPTIONS POINT IN
SHORT GRASSY AREA
BETWEEN RXR AND
Hwy

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
13:00	2.3	9/9-9
14:00	2.2	9/9-9

SKETCH



2

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOON

PROJECT	1101205		SITE NUMBER	2			
OPERATOR	WJW/N		SITE NAME	121			
DATE	5/22/11						
TRACKING TIMES (LOCAL) MEASURE CDT			SENSOR TYPE	500	9500	399	299
START	9:10		MEMORY CARD	601			
STOP	9:38		BATTERY NO.				
			CONTROLLER NO.				
			SENSOR NO.				
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS:				
	399E/9500	0.389					
	500	0.360					
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS				
	1.305		POINT IN Long BRUM GRASS IN SW R/W				
<i>1.665</i>							
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS				
TIME	GDOP	SATELLITES	MC				
14:10	2.3	9/9-9					
14:38	2.1	9/9-9					

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

1

PROJECT	1101205		SITE NUMBER	3
OPERATOR	WVN			
DATE	5/22/11		SITE NAME	122
TRACKING TIMES (LOCAL) MEASURE <u>COT</u>			SENSOR TYPE	500 9500 399 299
START	9:46		MEMORY CARD	601
STOP	10:14		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS: ND	
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS POINT IN SHORT GRASS Between RD AND RXR	
1.306				
1.666				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS N/C	
TIME	GDO	SATELLITES		
14:46	2.1	9/9-9		
15:14	2.0	9/9-9		
			SKETCH 	

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT	<u>1101205</u>		SITE NUMBER	<u>4</u>
OPERATOR	<u>WJN</u>		SITE NAME	<u>123</u>
DATE	<u>5/22/11</u>			
TRACKING TIMES (LOCAL) MEASURE <u>COT</u>			SENSOR TYPE	<u>500</u> 9500 399 299
START	<u>10:27</u>		MEMORY CARD	<u>601</u>
STOP	<u>10:51</u>		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399	0.441	OBSTRUCTIONS: <u>NO</u>	
	399E/9500	<u>0.389</u>		
	500	<u>0.360</u>		
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS <u>POINT IN</u>	
	<u>1.326</u>		<u>SHORT GRASS Between</u> <u>SE EDGE RD AND FIELD</u> <u>CORN, OPP SW EDGE</u> <u>FIELD SE</u>	
1.686				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>MC</u>	
TIME	GDOPO	SATELLITES		
15:27	2.0	<u>9/9-9</u>		
15:51	2.1	<u>9/9-9</u>		
SKETCH				

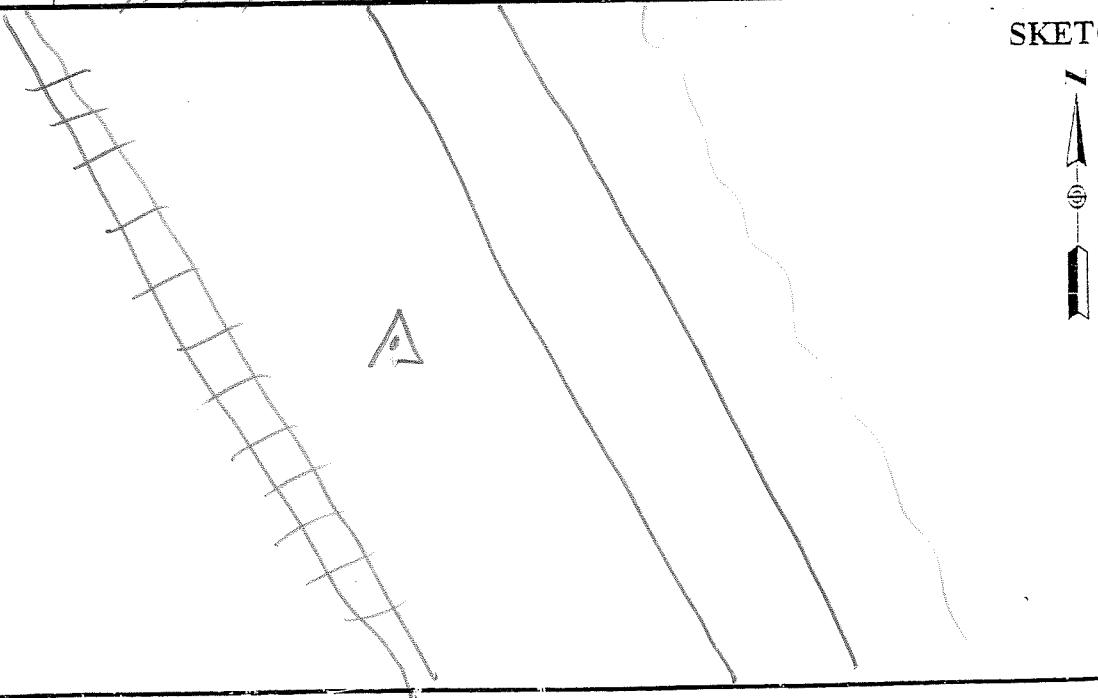
2

AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT	1101205		SITE NUMBER	5
OPERATOR	WJN			
DATE	5/22/11		SITE NAME	124
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	500 9500 399 299
START	11:04		MEMORY CARD	601
STOP	11:31		BATTERY NO.	
			CONTROLLER NO.	
			SENSOR NO.	
SENSOR CONSTANT	299/399 399E/9500 500	0.441 0.389 0.360	OBSTRUCTIONS:	<u>NO</u>
HEIGHT READINGS	MTS	FT	STATION DESCRIPTIONS	<u>POINT IN LONG GRASS Between SW ENGE RD AND RXR.</u>
<u>1.665</u>				
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
TIME	GDO	SATELLITES		
16:04	2.1	9/9-9		
16:31	2.1	9/9-9		

SKETCH

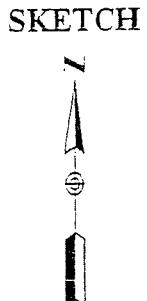
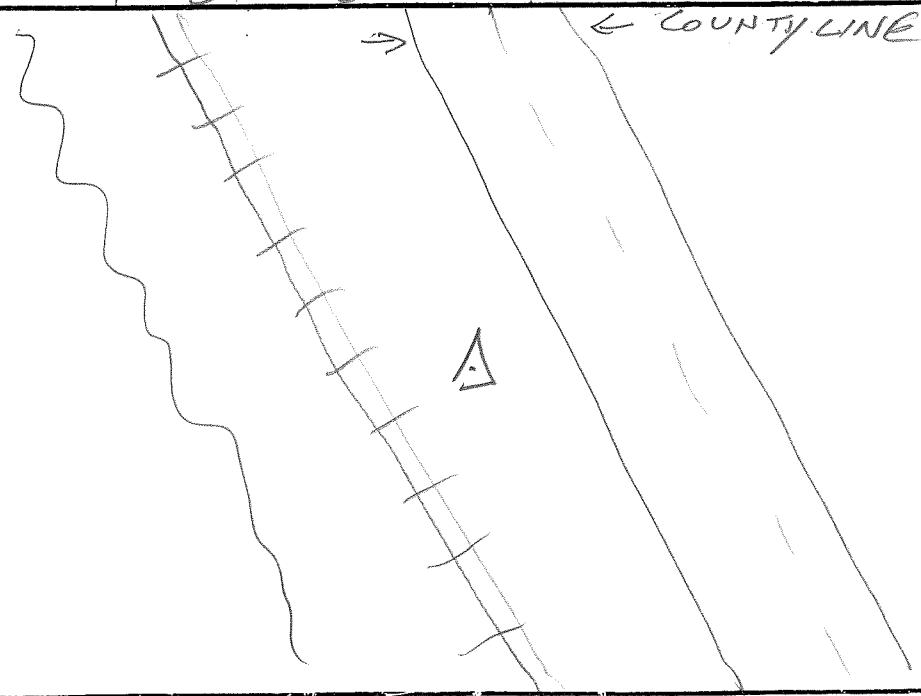


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4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

2

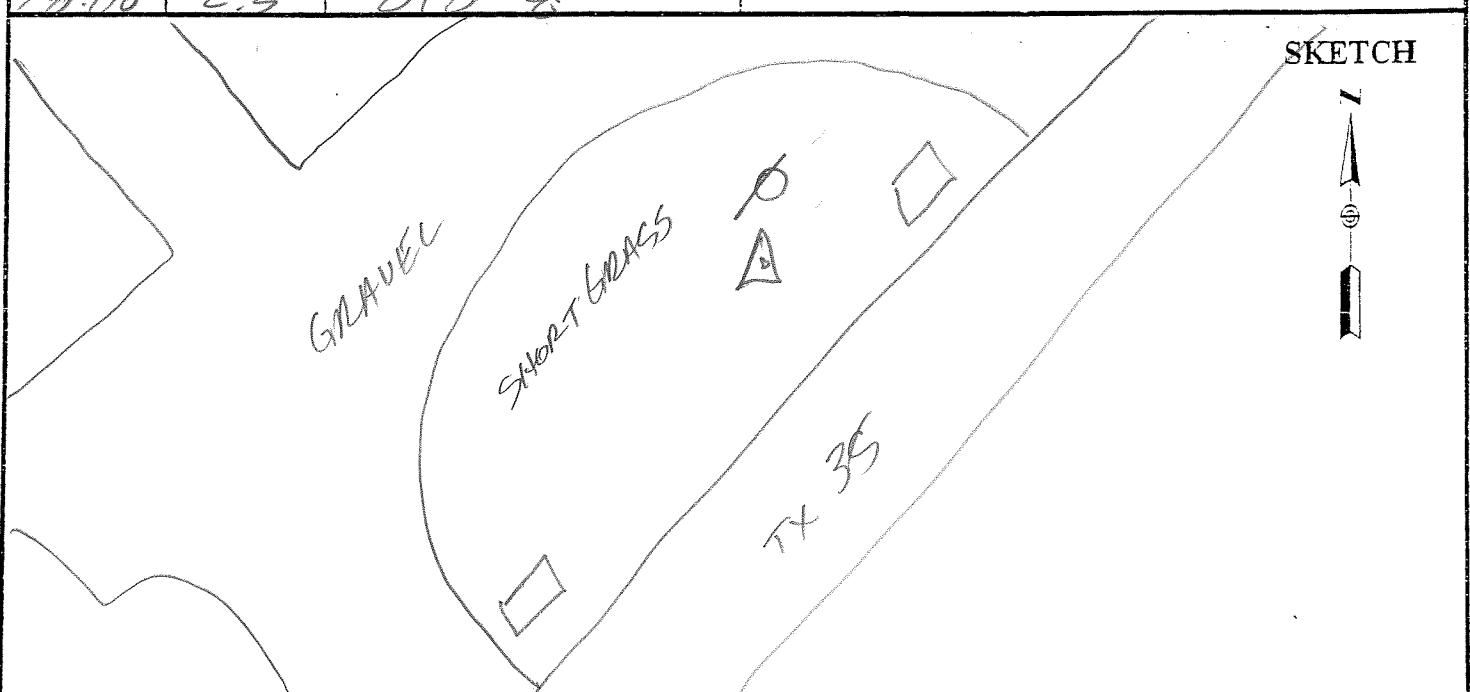
CALHOUN

PROJECT	<u>1101205</u>		SITE NUMBER	<u>6</u>
OPERATOR	<u>WJN</u>		SITE NAME	<u>125</u>
DATE	<u>5/22/11</u>			
TRACKING TIMES (LOCAL) MEASURE <u>CDT</u>			SENSOR TYPE	<u>500</u> 9500 399 299
START	<u>11:41</u>		MEMORY CARD	<u>601</u>
STOP	<u>12:10</u>		BATTERY NO.	
SENSOR CONSTANT	299/399	0.441	CONTROLLER NO.	
	399E/9500	0.389	SENSOR NO.	
	500	<u>0.360</u>		
HEIGHT READINGS	MTS	FT	OBSTRUCTIONS:	<u>TREE W</u>
	<u>1.284</u>			
			STATION DESCRIPTIONS	<u>POINT IN</u>
				<u>long grass in SW</u>
				<u>R/W</u>
SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS	
			<u>MC</u>	
TIME	GDO	SATELLITES		
<u>16:41</u>	<u>2.3</u>	<u>818-8</u>		
<u>17:10</u>	<u>2.2</u>	<u>818-8</u>		



AERO-METRIC, INC.
4020 TECHNOLOGY PARKWAY
SHEBOYGAN, WISCONSIN 53083

CALHOUN

PROJECT <u>1101205</u> OPERATOR <u>WVN</u> DATE <u>5/22/11</u>	SITE NUMBER <u>7</u> SITE NAME <u>126</u>	
TRACKING TIMES (LOCAL) MEASURE <u>GDT</u> START <u>12:27</u> STOP <u>13:00</u>		
SENSOR TYPE <u>500</u> 9500 399 299 MEMORY CARD <u>601</u> BATTERY NO. CONTROLLER NO. SENSOR NO.		
SENSOR CONSTANT 299/399 0.441 399E/9500 <u>0.389</u> <u>500</u> <u>0.360</u>		
OBSTRUCTIONS: <u>OH Power lines</u> <hr/> <hr/> <hr/>		
HEIGHT READINGS MTS FT <u>1.310</u> _____		
STATION DESCRIPTIONS <u>POINT IN</u> <u>short grass</u> <hr/> <hr/> <hr/>		
1-670		
SATELLITE OBSERVATIONS		
WEATHER CONDITIONS/IMPORTANT OBSERVATIONS <u>MK</u>		
TIME	GDO	SATELLITES
17:27	2.1	9/9-9
19:00	2.3	8/8-8
		SKETCH

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1101205 CALHOUN CO CONSTRAINED ADJ
GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0001
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06:34:11, Wed May 25, 2011

INI file: C:\WINNT\GEOLAB.INI
Input file: R:\1101205\GEOM~6IZ\SURVEY\CALHOUN\GEO\C.IOB
Output file: R:\1101205\GEOM~6IZ\SURVEY\CALHOUN\GEO\C.LST

Geoid File: C:\GEOLAB2\G2009U06.GEO

PARAMETERS		OBSERVATIONS	
Description	Number	Description	Number
No. of Stations	133	Directions	0
Coord Parameters	388	Distances	0
Free Latitudes	130	Azimuths	0
Free Longitudes	130	Vertical Angles	0
Free Heights	128	Zenithal Angles	0
Fixed Coordinates	11	Angles	0
Astro. Latitudes	0	Heights	0
Astro. Longitudes	0	Height Differences	0
Geoid Records	0	Auxiliary Params.	0
All Aux. Pars.	0	2-D Coords.	0
Direction Pars.	0	2-D Coord. Diffs.	0
Scale Parameters	0	3-D Coords.	0
Constant Pars.	0	3-D Coord. Diffs.	945
Rotation Pars.	0		
Translation Pars.	0		
Total Parameters	388	Total Observations	945

Degrees of Freedom = 557			

SUMMARY OF SELECTED OPTIONS

OPTION	SELECTION
Computation Mode	Adjustment
Maximum Iterations	5
Convergence Criterion	0.00100
Confidence Level for Statistics	95.000
Covariance Matrix Computation	Connected Portion Only
Residual Rejection Criterion	Tau Max
Confidence Region Types	3D Station Relative
Relative Confidence Regions	Connected Only
Variance Factor (VF) Known	Yes
CMULT (Multiply Parm Cov With VF)	Yes
RMULT (Multiply Res Cov With VF)	No
Force Convergence in Max Iters	Yes
Distances Affect 3D	No
Full Inverse Computed	No
Normals Reordered	Yes
Coordinates Generated	No
Geoid Interpolation Method	Bi-Linear

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1101205 CALHOUN CO CONSTRAINED ADJ
GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0002

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0003
 =====

Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT	MAPPROJ
			STD DEV	STD DEV	STD DEV	
NEO	000	1	3145314.049 0.014	724479.715 0.014	2.496 0.014	UTM 14
SFMC		1	1.00022195	1 5 27.332234	UTM 14	
NEO	000	10	3140666.055 0.019	737006.278 0.019	1.735 0.019	UTM 14
SFMC		10	1.00029331	1 8 58.997287	UTM 14	
NEO	000	100	3161321.798 0.007	732813.292 0.007	4.408 0.007	UTM 14
SFMC		100	1.00026897	1 8 17.496848	UTM 14	
NEO	000	100C	3156552.661 0.003	716761.536 0.003	9.472 0.003	UTM 14
SFMC		100C	1.00017990	1 3 28.466527	UTM 14	
NEO	000	101	3162234.273 0.007	731478.276 0.007	4.519 0.008	UTM 14
SFMC		101	1.00026132	1 7 55.419576	UTM 14	
NEO	000	102	3163985.233 0.007	729556.717 0.007	5.542 0.007	UTM 14
SFMC		102	1.00025038	1 7 24.276393	UTM 14	
NEO	000	103	3165559.527 0.005	731076.494 0.005	4.251 0.006	UTM 14
SFMC		103	1.00025902	1 7 53.420435	UTM 14	
NEO	000	104	3166674.412 0.004	732634.451 0.004	4.897 0.005	UTM 14
SFMC		104	1.00026794	1 8 22.563606	UTM 14	
NEO	000	105	3169641.795 0.002	732111.197 0.002	5.713 0.004	UTM 14
SFMC		105	1.00026493	1 8 17.891289	UTM 14	
NEO	000	106	3170312.294 0.001	733339.368 0.001	1.684 0.003	UTM 14
SFMC		106	1.00027199	1 8 40.582248	UTM 14	
NEO	000	107	3162483.961 0.004	738408.001 0.004	2.764 0.004	UTM 14
SFMC		107	1.00030151	1 9 57.672692	UTM 14	
NEO	000	108	3157242.085 0.007	745067.318 0.007	0.975 0.008	UTM 14
SFMC		108	1.00034126	1 11 46.313227	UTM 14	
NEO	000	109	3142317.172 0.004	724951.768 0.004	1.737 0.004	UTM 14
SFMC		109	1.00022457	1 5 31.151697	UTM 14	
NEO	000	11	3146013.011 0.015	734101.905 0.015	4.058 0.015	UTM 14
SFMC		11	1.00027641	1 8 16.560215	UTM 14	
NEO	000	110	3146207.933 0.006	723486.588 0.006	3.322 0.006	UTM 14
SFMC		110	1.00021646	1 5 11.288857	UTM 14	
NEO	000	111	3148352.815 0.008	723058.321 0.008	4.340 0.008	UTM 14
SFMC		111	1.00021409	1 5 6.947607	UTM 14	
NEO	000	112	3150495.349 0.009	725896.466 0.009	3.887 0.009	UTM 14
SFMC		112	1.00022982	1 5 59.789301	UTM 14	
NEO	000	113	3152728.481	728413.393	3.667	UTM 14

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m, DMS Page 0004
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Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT	MAPPROJ
			STD DEV	STD DEV	STD DEV	
SFMC	113		0.011	0.011	0.011	
NEO	000	114	1.00024393	1 6 47.217271 UTM 14		
			3154981.780	730312.443	3.688 UTM 14	
			0.011	0.011	0.011	
SFMC	114		1.00025468	1 7 23.912705 UTM 14		
NEO	000	115	3158992.622	730975.500	5.206 UTM 14	
			0.010	0.010	0.010	
SFMC	115		1.00025845	1 7 41.643294 UTM 14		
NEO	000	116	3156506.139	734587.141	3.514 UTM 14	
			0.009	0.009	0.009	
SFMC	116		1.00027921	1 8 41.237717 UTM 14		
NEO	000	117	3152686.865	737777.026	2.357 UTM 14	
			0.010	0.010	0.010	
SFMC	117		1.00029781	1 9 31.232886 UTM 14		
NEO	000	118	3146910.962	741843.420	3.824 UTM 14	
			0.014	0.013	0.016	
SFMC	118		1.00032190	1 10 33.292700 UTM 14		
NEO	000	119	3145897.292	734177.169	4.095 UTM 14	
			0.011	0.011	0.011	
SFMC	119		1.00027685	1 8 17.697609 UTM 14		
NEO	000	12	3145430.747	728621.085	4.156 UTM 14	
			0.014	0.014	0.014	
SFMC	12		1.00024511	1 6 39.882907 UTM 14		
NEO	000	120	3156266.228	716898.875	8.916 UTM 14	
			0.003	0.003	0.004	
SFMC	120		1.00018063	1 3 30.467973 UTM 14		
NEO	000	121	3149482.305	721352.836	5.072 UTM 14	
			0.010	0.010	0.010	
SFMC	121		1.00020474	1 4 38.750924 UTM 14		
NEO	000	122	3153545.738	718693.617	7.784 UTM 14	
			0.005	0.005	0.006	
SFMC	122		1.00019029	1 3 58.048758 UTM 14		
NEO	000	123	3159768.243	717325.973	9.540 UTM 14	
			0.005	0.005	0.006	
SFMC	123		1.00018292	1 3 42.977681 UTM 14		
NEO	000	124	3163252.831	712310.363	12.844 UTM 14	
			0.009	0.009	0.010	
SFMC	124		1.00015632	1 2 19.710070 UTM 14		
NEO	000	125	3167865.873	708064.441	15.739 UTM 14	
			0.014	0.014	0.014	
SFMC	125		1.00013428	1 1 11.321673 UTM 14		
NEO	000	126	3159374.075	718915.000	9.528 UTM 14	
			0.005	0.005	0.005	
SFMC	126		1.00019148	1 4 10.333413 UTM 14		
NEO	000	13	3142580.343	724609.788	1.667 UTM 14	
			0.004	0.004	0.004	
SFMC	13		1.00022267	1 5 25.570156 UTM 14		
NEO	000	14	3152436.998	723264.030	5.196 UTM 14	
			0.008	0.008	0.008	
SFMC	14		1.00021522	1 5 16.546150 UTM 14		
NEO	000	15	3127008.468	716834.295	1.721 UTM 14	
			0.011	0.011	0.011	

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m, DMS Page 0005
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Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT	MAPPROJ
			STD DEV	STD DEV	STD DEV	
SFMC	15		1.00018032	1 2 47.654912	UTM 14	
NEO	000 16		3152057.948	709224.027	4.246	UTM 14
			0.010	0.010	0.010	
SFMC	16		1.00014027	1 1 9.966504	UTM 14	
NEO	000 17		3161882.560	740554.494	2.928	UTM 14
			0.003	0.003	0.003	
SFMC	17		1.00031420	1 10 34.466607	UTM 14	
NEO	000 18		3164218.856	737666.719	4.181	UTM 14
			0.013	0.013	0.014	
SFMC	18		1.00029715	1 9 47.354926	UTM 14	
NEO	000 19		3162310.529	731495.515	4.851	UTM 14
			0.010	0.010	0.010	
SFMC	19		1.00026142	1 7 55.839118	UTM 14	
NEO	000 2		3146031.513	723469.576	4.619	UTM 14
			0.013	0.013	0.013	
SFMC	2		1.00021636	1 5 10.732253	UTM 14	
NEO	000 20		3166738.587	729675.049	5.944	UTM 14
			0.006	0.006	0.007	
SFMC	20		1.00025105	1 7 30.529692	UTM 14	
NEO	000 21		3171559.429	726631.464	8.718	UTM 14
			0.000	0.000	0.001	
SFMC	21		1.00023390	1 6 44.122783	UTM 14	
NEO	000 22		3173018.135	723911.451	9.468	UTM 14
			0.003	0.003	0.004	
SFMC	22		1.00021877	1 5 58.273800	UTM 14	
NEO	000 23		3176299.105	728376.146	1.322	UTM 14
			0.006	0.005	0.007	
SFMC	23		1.00024369	1 7 22.063604	UTM 14	
NEO	000 24		3176204.051	751688.767	3.134	UTM 14
			0.017	0.017	0.017	
SFMC	24		1.00038184	1 14 13.991131	UTM 14	
NEO	000 25		3173080.077	752884.188	1.807	UTM 14
			0.016	0.016	0.017	
SFMC	25		1.00038929	1 14 29.899382	UTM 14	
NEO	000 26		3170359.460	748671.854	2.625	UTM 14
			0.012	0.012	0.012	
SFMC	26		1.00036321	1 13 11.075464	UTM 14	
NEO	000 27		3174522.151	748968.450	5.221	UTM 14
			0.015	0.015	0.015	
SFMC	27		1.00036503	1 13 23.148663	UTM 14	
NEO	000 28		3175968.622	745507.353	3.649	UTM 14
			0.014	0.014	0.014	
SFMC	28		1.00034390	1 12 24.361745	UTM 14	
NEO	000 29		3176599.370	742557.366	7.275	UTM 14
			0.013	0.013	0.013	
SFMC	29		1.00032613	1 11 33.236704	UTM 14	
NEO	000 3		3148478.540	722041.681	5.042	UTM 14
			0.011	0.011	0.011	
SFMC	3		1.00020851	1 4 49.342949	UTM 14	
NEO	000 30		3171297.854	739165.881	5.641	UTM 14
			0.009	0.009	0.009	
SFMC	30		1.00030597	1 10 24.906663	UTM 14	

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0006
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Adjusted NEO Coordinates:

	CODE	FFF	STATION	NORTHING STD DEV	EASTING STD DEV	O-HEIGHT STD DEV	MAPPROJ
NEO	000	31		3171699.300 0.020	758564.409 0.020	2.340	UTM 14
SFMC		31		1.00042515	1 16 7.803571	0.093	UTM 14
NEO	000	32		3156575.186 0.009	745883.279 0.009	1.093	UTM 14
SFMC		32		1.00034621	1 11 59.553135	2.134	UTM 14
NEO	000	33		3158870.856 0.005	743280.351 0.005	0.005	UTM 14
SFMC		33		1.00033049	1 11 17.562097	4.967	UTM 14
NEO	000	34		3165805.370 0.007	730949.068 0.007	0.007	UTM 14
SFMC		34		1.00025829	1 7 51.551180	4.773	UTM 14
NEO	000	35		3170098.617 0.007	732964.157 0.007	0.007	UTM 14
SFMC		35		1.00026983	1 8 33.635354	6.995	UTM 14
NEO	000	36		3175780.043 0.011	739099.176 0.011	0.011	UTM 14
SFMC		36		1.00030557	1 10 30.807459	6.615	UTM 14
NEO	000	37		3173064.026 0.005	730536.473 0.005	0.005	UTM 14
SFMC		37		1.00025593	1 7 55.329957	10.179	UTM 14
NEO	000	38		3169720.759 0.007	720849.914 0.007	0.007	UTM 14
SFMC		38		1.00020197	1 4 59.400431	8.549	UTM 14
NEO	000	39		3167290.782 0.006	724242.156 0.005	0.006	UTM 14
SFMC		39		1.00022061	1 5 55.635745	6.841	UTM 14
NEO	000	4		3150978.914 0.008	720383.325 0.008	0.009	UTM 14
SFMC		4		1.00019945	1 4 23.949666	1.507	UTM 14
NEO	000	40		3154123.675 0.007	711075.484 0.007	0.008	UTM 14
SFMC		40		1.00014987	1 1 45.282478	8.238	UTM 14
NEO	000	41		3156141.665 0.004	714092.275 0.004	0.004	UTM 14
SFMC		41		1.00016570	1 2 41.034155	11.417	UTM 14
NEO	000	42		3162705.645 0.007	718536.922 0.007	0.007	UTM 14
SFMC		42		1.00018943	1 4 8.489304	11.543	UTM 14
NEO	000	43		3159757.158 0.005	714678.655 0.005	0.005	UTM 14
SFMC		43		1.00016880	1 2 56.438694	13.416	UTM 14
NEO	000	44		3162670.466 0.008	712751.041 0.008	0.008	UTM 14
SFMC		44		1.00015863	1 2 26.647974	14.768	UTM 14
NEO	000	45		3164604.427 0.010	711119.452 0.010	0.010	UTM 14
SFMC		45		1.00015009	1 2 0.634575	16.719	UTM 14
NEO	000	46		3167597.135 0.013	708342.386 0.013	0.013	UTM 14
SFMC		46		1.00013571	1 1 15.852058	11.949	UTM 14
NEO	000	47		3171579.201	717984.017		

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m, DMS Page 0007
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Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT	MAPPROJ
			STD DEV	STD DEV	STD DEV	
SFMC	47		0.009	0.009	0.009	
NEO	000	48	1.00018644	1 4 11.524961 UTM 14		
			3164773.262	724631.988	7.825 UTM 14	
			0.007	0.007	0.007	
SFMC	48		1.00022277	1 5 58.774608 UTM 14		
NEO	000	49	3167104.276	727545.034	6.435 UTM 14	
			0.005	0.005	0.005	
SFMC	49		1.00023903	1 6 53.555227 UTM 14		
NEO	000	5	3153295.238	718875.074	7.786 UTM 14	
			0.005	0.005	0.005	
SFMC	5		1.00019127	1 4 0.869177 UTM 14		
NEO	000	50	3162265.343	723320.886	9.004 UTM 14	
			0.008	0.008	0.008	
SFMC	50		1.00021552	1 5 31.999998 UTM 14		
NEO	000	51	3147943.713	722489.505	4.920 UTM 14	
			0.007	0.007	0.007	
SFMC	51		1.00021096	1 4 56.396383 UTM 14		
NEO	000	52	3149321.380	724349.508	4.723 UTM 14	
			0.007	0.007	0.008	
SFMC	52		1.00022122	1 5 30.968536 UTM 14		
NEO	000	53	3150781.293	726306.451	4.735 UTM 14	
			0.008	0.008	0.009	
SFMC	53		1.00023211	1 6 7.394031 UTM 14		
NEO	000	54	3155397.216	724298.800	5.411 UTM 14	
			0.008	0.008	0.008	
SFMC	54		1.00022093	1 5 39.050080 UTM 14		
NEO	000	55	3153893.404	726403.166	5.179 UTM 14	
			0.009	0.009	0.009	
SFMC	55		1.00023264	1 6 13.724781 UTM 14		
NEO	000	56	3152642.202	728326.254	4.214 UTM 14	
			0.010	0.010	0.010	
SFMC	56		1.00024344	1 6 45.560564 UTM 14		
NEO	000	57	3154468.348	729743.242	4.552 UTM 14	
			0.011	0.011	0.011	
SFMC	57		1.00025145	1 7 13.153008 UTM 14		
NEO	000	58	3153506.442	730092.597	4.137 UTM 14	
			0.011	0.011	0.011	
SFMC	58		1.00025343	1 7 17.822132 UTM 14		
NEO	000	59	3148150.158	726485.365	3.777 UTM 14	
			0.007	0.007	0.007	
SFMC	59		1.00023311	1 6 6.607237 UTM 14		
NEO	000	6	3156541.604	716757.953	9.567 UTM 14	
			0.003	0.003	0.003	
SFMC	6		1.00017988	1 3 28.387849 UTM 14		
NEO	000	60	3146083.072	727074.068	4.209 UTM 14	
			0.006	0.006	0.006	
SFMC	60		1.00023641	1 6 13.820069 UTM 14		
NEO	000	61	3161231.684	724395.714	8.767 UTM 14	
			0.010	0.010	0.010	
SFMC	61		1.00022146	1 5 49.375384 UTM 14		
NEO	000	62	3158582.928	723413.436	6.900 UTM 14	
			0.008	0.008	0.008	

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 GeoLab V2.4d GRS 80 UNITS: m, DMS Page 0008
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Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT	MAPPROJ
			STD DEV	STD DEV	STD DEV	
SFMC	62		1.00021604	1 5 28.205908	UTM 14	
NEO	000	63	3156088.146	722270.363	6.413	UTM 14
			0.007	0.007	0.007	
SFMC	63		1.00020975	1 5 4.476076	UTM 14	
NEO	000	64	3159983.076	734843.372	4.256	UTM 14
			0.007	0.007	0.007	
SFMC	64		1.00028069	1 8 51.112792	UTM 14	
NEO	000	65	3146942.877	741846.296	4.282	UTM 14
			0.015	0.015	0.015	
SFMC	65		1.00032191	1 10 33.393719	UTM 14	
NEO	000	66	3150047.643	740163.971	3.124	UTM 14
			0.012	0.012	0.013	
SFMC	66		1.00031190	1 10 8.885063	UTM 14	
NEO	000	67	3152507.895	738356.041	2.066	UTM 14
			0.010	0.010	0.010	
SFMC	67		1.00030122	1 9 41.097437	UTM 14	
NEO	000	68	3154514.556	736140.197	3.022	UTM 14
			0.009	0.009	0.010	
SFMC	68		1.00028824	1 9 5.393316	UTM 14	
NEO	000	69	3124185.728	729985.128	2.073	UTM 14
			0.015	0.015	0.015	
SFMC	69		1.00025286	1 6 31.660423	UTM 14	
NEO	000	7	3149113.782	754325.810	1.387	UTM 14
			0.022	0.022	0.022	
SFMC	7		1.00039835	1 14 15.180896	UTM 14	
NEO	000	70	3122062.040	728775.520	1.468	UTM 14
			0.015	0.015	0.015	
SFMC	70		1.00024601	1 6 7.507580	UTM 14	
NEO	000	71	3122231.443	726683.177	0.667	UTM 14
			0.014	0.014	0.014	
SFMC	71		1.00023424	1 5 31.512172	UTM 14	
NEO	000	72	3117052.502	722370.476	1.590	UTM 14
			0.015	0.015	0.015	
SFMC	72		1.00021034	1 4 9.254574	UTM 14	
NEO	000	73	3118276.461	720376.263	0.987	UTM 14
			0.014	0.014	0.014	
SFMC	73		1.00019944	1 3 36.534843	UTM 14	
NEO	000	74	3112751.408	715923.994	1.705	UTM 14
			0.018	0.018	0.018	
SFMC	74		1.00017547	1 2 11.701779	UTM 14	
NEO	000	75	3112138.848	714953.352	1.911	UTM 14
			0.018	0.018	0.018	
SFMC	75		1.00017031	1 1 54.082093	UTM 14	
NEO	000	76	3172025.025	728712.916	6.914	UTM 14
			0.002	0.002	0.003	
SFMC	76		1.00024560	1 7 21.560448	UTM 14	
NEO	000	77	3167561.387	729470.850	5.974	UTM 14
			0.004	0.004	0.004	
SFMC	77		1.00024989	1 7 28.178157	UTM 14	
NEO	000	78	3163194.726	724916.527	5.380	UTM 14
			0.008	0.008	0.008	
SFMC	78		1.00022435	1 6 1.442564	UTM 14	

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Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT	MAPPROJ
			STD DEV	STD DEV	STD DEV	
NEO	000	79	3160975.762 0.008	728872.432 0.008	6.551 0.009	UTM 14
SFMC		79	1.00024651	1 7 7.693439	UTM 14	
NEO	000	8	3150322.218 0.021	753947.666 0.021	2.412 0.021	UTM 14
SFMC		8	1.00039597	1 14 10.584078	UTM 14	
NEO	000	80	3157743.443 0.011	733648.472 0.011	4.029 0.011	UTM 14
SFMC		80	1.00027378	1 8 26.670218	UTM 14	
NEO	000	81	3160417.818 0.009	731583.478 0.009	4.914 0.009	UTM 14
SFMC		81	1.00026192	1 7 54.497105	UTM 14	
NEO	000	82	3156600.911 0.012	730586.685 0.012	5.129 0.012	UTM 14
SFMC		82	1.00025624	1 7 31.181017	UTM 14	
NEO	000	83	3155104.676 0.016	717655.418 0.016	8.920 0.016	UTM 14
SFMC		83	1.00018469	1 3 42.080715	UTM 14	
NEO	000	84	3158124.592 0.014	718347.036 0.014	9.073 0.014	UTM 14
SFMC		84	1.00018841	1 3 58.556460	UTM 14	
NEO	000	85	3159131.936 0.013	719641.466 0.013	9.194 0.013	UTM 14
SFMC		85	1.00019541	1 4 22.747252	UTM 14	
NEO	000	86	3168100.802 0.003	730369.727 0.003	6.234 0.003	UTM 14
SFMC		86	1.00025499	1 7 44.837737	UTM 14	
NEO	000	87	3176581.929 0.007	748915.446 0.007	4.617 0.007	UTM 14
SFMC		87	1.00036470	1 13 25.599471	UTM 14	
NEO	000	88	3175438.696 0.007	748923.427 0.007	4.812 0.007	UTM 14
SFMC		88	1.00036475	1 13 23.860474	UTM 14	
NEO	000	89	3175406.024 0.007	747892.806 0.007	3.224 0.007	UTM 14
SFMC		89	1.00035843	1 13 5.597379	UTM 14	
NEO	000	9	3147522.632 0.019	748259.989 0.019	2.853 0.020	UTM 14
SFMC		9	1.00036071	1 12 26.464411	UTM 14	
NEO	000	90	3173690.402 0.007	748412.949 0.007	4.460 0.008	UTM 14
SFMC		90	1.00036162	1 13 11.972565	UTM 14	
NEO	000	91	3171718.465 0.008	749115.889 0.008	3.233 0.009	UTM 14
SFMC		91	1.00036594	1 13 21.140745	UTM 14	
NEO	000	92	3170376.791 0.009	748600.727 0.009	2.715 0.009	UTM 14
SFMC		92	1.00036277	1 13 9.849579	UTM 14	
NEO	000	93	3173486.938 0.009	753096.253 0.009	3.108 0.009	UTM 14
SFMC		93	1.00039061	1 14 34.322672	UTM 14	
NEO	000	94	3176005.496	745955.976	1.431	UTM 14

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Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING	EASTING	O-HEIGHT
			STD DEV	STD DEV	STD DEV MAPPROJ
SFMC	94		0.007	0.007	0.008
NEO	000	95	1.00034662	1 12 32.350077 UTM 14	
			3161365.615	741958.797	0.919 UTM 14
			0.003	0.003	0.003
SFMC	95		1.00032257	1 10 58.331602 UTM 14	
NEO	000	96	3160677.515	740080.136	1.076 UTM 14
			0.003	0.003	0.003
SFMC	96		1.00031139	1 10 24.220005 UTM 14	
NEO	000	97	3159365.482	740679.306	2.165 UTM 14
			0.004	0.004	0.004
SFMC	97		1.00031495	1 10 32.668846 UTM 14	
NEO	000	98	3160328.333	737987.800	3.851 UTM 14
			0.004	0.004	0.004
SFMC	98		1.00029904	1 9 46.901898 UTM 14	
NEO	000	99	3159938.587	735133.020	4.290 UTM 14
			0.006	0.006	0.006
SFMC	99		1.00028237	1 8 56.133095 UTM 14	
NEO	001	A 1257	3171454.774	706886.619	16.961 UTM 14
			0.012	0.012	0.000
SFMC	A 1257		1.00012825	1 0 55.459239 UTM 14	
NEO	000	B 595	3149759.857	705327.854	12.016 UTM 14
			0.013	0.013	0.013
SFMC	B 595		1.00012034	0 59 58.580590 UTM 14	
NEO	001	E 1258	3168647.639	703055.575	8.168 UTM 14
			0.013	0.013	0.000
SFMC	E 1258		1.00010887	0 59 44.065386 UTM 14	
NEO	111	LAVAPORT	3171696.909	726581.293	8.315 UTM 14
			0.000	0.000	0.000
SFMC	LAVAPORT		1.00023362	1 6 43.443006 UTM 14	
NEO	111	TXPV	3170219.011	732795.934	11.996 UTM 14
			0.000	0.000	0.000
SFMC	TXPV		1.00026886	1 8 30.853330 UTM 14	
NEO	111	TXVA	3191492.113	703952.777	38.634 UTM 14
			0.000	0.000	0.000
SFMC	TXVA		1.00011335	1 0 30.699980 UTM 14	

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 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0011
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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV
PLH	000	1	N	28 24	54.05514	W 96 42	30.24078	-24.544
					0.014		0.014	
PLH	000	10	N	28 22	15.18626	W 96 34	53.63795	-25.199
					0.019		0.019	
PLH	000	100	N	28 33	28.54431	W 96 37	12.53674	-22.699
					0.007		0.007	
PLH	000	100C	N	28 31	3.68238	W 96 47	6.10163	-17.768
					0.003		0.003	
PLH	000	101	N	28 33	59.02905	W 96 38	0.96745	-22.611
					0.007		0.008	
PLH	000	102	N	28 34	57.10723	W 96 39	10.37462	-21.626
					0.007		0.007	
PLH	000	103	N	28 35	47.25017	W 96 38	13.32950	-22.915
					0.005		0.006	
PLH	000	104	N	28 36	22.44504	W 96 37	15.20090	-22.260
					0.004		0.005	
PLH	000	105	N	28 37	59.12556	W 96 37	32.28340	-21.478
					0.002		0.004	
PLH	000	106	N	28 38	20.10020	W 96 36	46.59408	-25.497
					0.001		0.003	
PLH	000	107	N	28 34	2.62304	W 96 33	45.93462	-24.290
					0.004		0.004	
PLH	000	108	N	28 31	7.98625	W 96 29	45.07149	-26.004
					0.007		0.008	
PLH	000	109	N	28 23	16.45386	W 96 42	15.00283	-25.273
					0.004		0.004	
PLH	000	11	N	28 25	10.67226	W 96 36	36.35707	-22.921
					0.015		0.015	
PLH	000	110	N	28 25	23.69265	W 96 43	6.09246	-23.737
					0.006		0.006	
PLH	000	111	N	28 26	33.60138	W 96 43	20.33060	-22.745
					0.008		0.008	
PLH	000	112	N	28 27	41.41193	W 96 41	34.55806	-23.193
					0.009		0.009	
PLH	000	113	N	28 28	52.34165	W 96 40	0.48817	-23.411
					0.011		0.011	
PLH	000	114	N	28 30	4.29972	W 96 38	49.07892	-23.391
					0.011		0.011	
PLH	000	115	N	28 32	14.10150	W 96 38	21.80704	-21.900
					0.010		0.010	
PLH	000	116	N	28 30	51.04495	W 96 36	10.84759	-23.537
					0.009		0.009	
PLH	000	117	N	28 28	44.96251	W 96 34	16.43649	-24.643
					0.010		0.010	
PLH	000	118	N	28 25	34.75013	W 96 31	51.37965	-23.122
					0.014		0.016	
PLH	000	119	N	28 25	6.86654	W 96 36	33.67738	-22.883
					0.011		0.011	
PLH	000	12	N	28 24	55.26000	W 96 39	58.06255	-22.852
					0.014		0.014	
PLH	000	120	N	28 30	54.29911	W 96 47	1.24708	-18.320
					0.003		0.004	

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 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0012
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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
				STD DEV		STD DEV		STD DEV
PLH	000	121	N 28 27	11.32184 0.010	W 96 44	22.20413 0.010	-22.042 0.010	
PLH	000	122	N 28 29	24.88070 0.005	W 96 45	57.12944 0.005	-19.403 0.006	
PLH	000	123	N 28 32	47.75740 0.005	W 96 46	43.16047 0.005	-17.725 0.006	
PLH	000	124	N 28 34	43.89371 0.009	W 96 49	45.28496 0.009	-14.490 0.010	
PLH	000	125	N 28 37	16.16771 0.014	W 96 52	18.46045 0.014	-11.647 0.014	
PLH	000	126	N 28 32	33.99852 0.005	W 96 45	44.99694 0.005	-17.717 0.005	
PLH	000	13	N 28 23	25.21062 0.004	W 96 42	27.37540 0.004	-25.347 0.004	
PLH	000	14	N 28 28	46.08922 0.008	W 96 43	9.92606 0.008	-21.930 0.008	
PLH	000	15	N 28 15	4.27640 0.011	W 96 47	23.35474 0.011	-25.209 0.011	
PLH	000	16	N 28 28	42.16590 0.010	W 96 51	46.16133 0.010	-23.025 0.010	
PLH	000	17	N 28 33	41.67344 0.003	W 96 32	27.45147 0.003	-24.103 0.003	
PLH	000	18	N 28 34	59.43757 0.013	W 96 34	11.90054 0.013	-22.894 0.014	
PLH	000	19	N 28 34	1.49384 0.010	W 96 38	0.27802 0.010	-22.280 0.010	
PLH	000	2	N 28 25	17.97471 0.013	W 96 43	6.84016 0.013	-22.438 0.013	
PLH	000	20	N 28 36	26.42788 0.006	W 96 39	4.03374 0.006	-21.250 0.007	
PLH	000	21	N 28 39	4.88172 0.000	W 96 40	52.57253 0.000	-18.551 0.001	
PLH	000	22	N 28 39	53.94889 0.003	W 96 42	31.66112 0.003	-17.838 0.004	
PLH	000	23	N 28 41	37.66516 0.006	W 96 39	44.93832 0.005	-25.957 0.007	
PLH	000	24	N 28 41	18.98977 0.017	W 96 25	26.68641 0.017	-23.864 0.017	
PLH	000	25	N 28 39	36.73994 0.016	W 96 24	45.17252 0.016	-25.172 0.017	
PLH	000	26	N 28 38	11.35959 0.012	W 96 27	22.33702 0.012	-24.375 0.012	
PLH	000	27	N 28 40	26.28752 0.015	W 96 27	8.15507 0.015	-21.794 0.015	
PLH	000	28	N 28 41	15.62752 0.014	W 96 29	14.43679 0.014	-23.412 0.014	
PLH	000	29	N 28 41	38.10962 0.013	W 96 31	2.55937 0.013	-19.829 0.013	
PLH	000	3	N 28 26	38.30769 0.011	W 96 43	57.59133 0.011	-22.055 0.011	
PLH	000	30	N 28 38	48.27024 0.009	W 96 33	11.43173 0.009	-21.472 0.009	

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0013
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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV
PLH	000	31	N	28 38	47.87814	W 96 21	17.25239	-24.609
					0.020		0.020	0.020
PLH	000	32	N	28 30	45.78169	W 96 29	15.59305	-25.879
					0.009		0.009	0.009
PLH	000	33	N	28 32	2.07135	W 96 30	49.51352	-24.862
					0.005		0.005	0.005
PLH	000	34	N	28 35	55.31383	W 96 38	17.83868	-22.203
					0.007		0.007	0.007
PLH	000	35	N	28 38	13.40594	W 96 37	0.55936	-22.411
					0.007		0.007	0.007
PLH	000	36	N	28 41	13.83047	W 96 33	10.50484	-20.150
					0.011		0.011	0.011
PLH	000	37	N	28 39	51.24941	W 96 38	27.74618	-20.622
					0.005		0.005	0.005
PLH	000	38	N	28 38	8.77856	W 96 44	26.66405	-17.133
					0.007		0.007	0.007
PLH	000	39	N	28 36	47.78074	W 96 42	23.53405	-18.712
					0.006		0.005	0.006
PLH	000	4	N	28 28	0.50887	W 96 44	56.79459	-20.300
					0.008		0.008	0.009
PLH	000	40	N	28 29	48.17139	W 96 50	36.75317	-25.767
					0.007		0.007	0.008
PLH	000	41	N	28 30	51.92719	W 96 48	44.51084	-19.025
					0.004		0.004	0.004
PLH	000	42	N	28 34	22.40632	W 96 45	56.61472	-15.862
					0.007		0.007	0.007
PLH	000	43	N	28 32	48.98116	W 96 48	20.52096	-15.747
					0.005		0.005	0.005
PLH	000	44	N	28 34	24.72341	W 96 49	29.46327	-13.912
					0.008		0.008	0.008
PLH	000	45	N	28 35	28.48242	W 96 50	28.19755	-12.583
					0.010		0.010	0.010
PLH	000	46	N	28 37	7.28028	W 96 52	8.40780	-10.664
					0.013		0.013	0.013
PLH	000	47	N	28 39	10.87107	W 96 46	10.86448	-15.398
					0.009		0.009	0.009
PLH	000	48	N	28 35	25.79595	W 96 42	10.96886	-19.408
					0.007		0.007	0.007
PLH	000	49	N	28 36	39.65322	W 96 40	22.13945	-20.787
					0.005		0.005	0.005
PLH	000	5	N	28 29	16.63699	W 96 45	50.63164	-19.396
					0.005		0.005	0.005
PLH	000	50	N	28 34	5.17957	W 96 43	0.96043	-18.219
					0.008		0.008	0.008
PLH	000	51	N	28 26	20.66706	W 96 43	41.51082	-22.167
					0.007		0.007	0.007
PLH	000	52	N	28 27	4.25423	W 96 42	32.21928	-22.359
					0.007		0.007	0.008
PLH	000	53	N	28 27	50.44058	W 96 41	19.29225	-22.343
					0.008		0.008	0.009
PLH	000	54	N	28 30	21.56749	W 96 42	29.82261	-21.735
					0.008		0.008	0.008

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0014
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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV
PLH	000	55	N	28 29	31.42860	W 96 41	13.53648	-21.929
					0.009		0.009	0.009
PLH	000	56	N	28 28	49.59523	W 96 40	3.75195	-22.864
					0.010		0.010	0.010
PLH	000	57	N	28 29	47.99127	W 96 39	10.36882	-22.528
					0.011		0.011	0.011
PLH	000	58	N	28 29	16.53767	W 96 38	58.22116	-22.931
					0.011		0.011	0.011
PLH	000	59	N	28 26	24.89704	W 96 41	14.57853	-23.273
					0.007		0.007	0.007
PLH	000	6	N	28 31	3.32547	W 96 47	6.24087	-17.672
					0.003		0.003	0.003
PLH	000	60	N	28 25	17.41163	W 96 40	54.41630	-22.816
					0.006		0.006	0.006
PLH	000	61	N	28 33	30.95027	W 96 42	22.15690	-18.435
					0.010		0.010	0.010
PLH	000	62	N	28 32	5.55521	W 96 43	0.13751	-20.288
					0.008		0.008	0.008
PLH	000	63	N	28 30	45.25442	W 96 43	43.90363	-20.762
					0.007		0.007	0.007
PLH	000	64	N	28 32	43.76478	W 96 35	58.87032	-22.818
					0.007		0.007	0.007
PLH	000	65	N	28 25	35.78437	W 96 31	51.24999	-22.664
					0.015		0.015	0.015
PLH	000	66	N	28 27	17.70188	W 96 32	50.70907	-23.847
					0.012		0.012	0.013
PLH	000	67	N	28 28	38.77130	W 96 33	55.29397	-24.929
					0.010		0.010	0.010
PLH	000	68	N	28 29	45.37336	W 96 35	15.23265	-24.003
					0.009		0.009	0.010
PLH	000	69	N	28 13	24.58514	W 96 39	23.11564	-24.750
					0.015		0.015	0.015
PLH	000	7	N	28 26	37.72718	W 96 24	11.23679	-25.511
					0.022		0.022	0.022
PLH	000	70	N	28 12	16.38661	W 96 40	8.95753	-25.342
					0.015		0.015	0.015
PLH	000	71	N	28 12	23.18826	W 96 41	25.53100	-26.159
					0.014		0.014	0.014
PLH	000	72	N	28 09	37.66236	W 96 44	7.15936	-25.213
					0.015		0.015	0.015
PLH	000	73	N	28 10	18.61051	W 96 45	19.39799	-25.841
					0.014		0.014	0.014
PLH	000	74	N	28 07	21.84089	W 96 48	6.21770	-25.078
					0.018		0.018	0.018
PLH	000	75	N	28 07	2.51769	W 96 48	42.17533	-24.869
					0.018		0.018	0.018
PLH	000	76	N	28 39	18.68054	W 96 39	35.62377	-20.336
					0.002		0.002	0.003
PLH	000	77	N	28 36	53.27271	W 96 39	10.95242	-21.230
					0.004		0.004	0.004
PLH	000	78	N	28 34	34.36468	W 96 42	1.61716	-21.835
					0.008		0.008	0.008

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0015
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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV
PLH	000	79	N	28 33	19.82969	W 96 39	37.70761	-20.597
					0.008		0.008	0.009
PLH	000	8	N	28 27	17.22130	W 96 24	24.16764	-24.496
					0.021		0.021	0.021
PLH	000	80	N	28 31	31.82485	W 96 36	44.44583	-23.040
					0.011		0.011	0.011
PLH	000	81	N	28 32	59.98529	W 96 37	58.41858	-22.199
					0.009		0.009	0.009
PLH	000	82	N	28 30	56.69540	W 96 38	37.83054	-21.962
					0.012		0.012	0.012
PLH	000	83	N	28 30	16.12738	W 96 46	34.22589	-18.296
					0.016		0.016	0.016
PLH	000	84	N	28 31	53.77046	W 96 46	6.73749	-18.166
					0.014		0.014	0.014
PLH	000	85	N	28 32	25.69498	W 96 45	18.45012	-18.041
					0.013		0.013	0.013
PLH	000	86	N	28 37	10.21233	W 96 38	37.48786	-20.964
					0.003		0.003	0.003
PLH	000	87	N	28 41	33.19037	W 96 27	8.48694	-22.408
					0.007		0.007	0.007
PLH	000	88	N	28 40	56.07235	W 96 27	9.09201	-22.207
					0.007		0.007	0.007
PLH	000	89	N	28 40	55.72468	W 96 27	47.05734	-23.807
					0.007		0.007	0.007
PLH	000	9	N	28 25	50.27495	W 96 27	55.26105	-24.067
					0.019		0.019	0.020
PLH	000	90	N	28 39	59.67107	W 96 27	29.25489	-22.556
					0.007		0.007	0.008
PLH	000	91	N	28 38	55.16971	W 96 27	4.93122	-23.770
					0.008		0.008	0.009
PLH	000	92	N	28 38	11.97137	W 96 27	24.94067	-24.286
					0.009		0.009	0.009
PLH	000	93	N	28 39	49.79810	W 96 24	37.04294	-23.871
					0.009		0.009	0.009
PLH	000	94	N	28 41	16.51749	W 96 28	57.89204	-25.625
					0.007		0.007	0.008
PLH	000	95	N	28 33	23.95190	W 96 31	36.20428	-26.098
					0.003		0.003	0.003
PLH	000	96	N	28 33	2.86671	W 96 32	45.80275	-25.953
					0.003		0.003	0.003
PLH	000	97	N	28 32	19.87180	W 96 32	24.76212	-24.851
					0.004		0.004	0.004
PLH	000	98	N	28 32	52.91537	W 96 34	2.99756	-23.194
					0.004		0.004	0.004
PLH	000	99	N	28 32	42.13185	W 96 35	48.25314	-22.780
					0.006		0.006	0.006
PLH	001	A 1257	N	28 39	13.38892	W 96 52	59.46713	-10.446
					0.012		0.012	0.000
PLH	000	B 595	N	28 27	29.76770	W 96 54	10.83075	-15.266
					0.013		0.013	0.013
PLH	001	E 1258	N	28 37	44.41523	W 96 55	22.30069	-19.248
					0.013		0.013	0.000

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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
			STD	DEV	STD	DEV	STD	DEV
PLH	111	LAVAPORT	N 28 39	9.37709	W 96 40	54.32098	-18.956	
				0.000		0.000	0.000	
PLH	111	TXPV	N 28 38	17.42370	W 96 37	6.66181	-15.191	
				0.000		0.000	0.000	
PLH	111	TXVA	N 28 50	5.73900	W 96 54	34.52532	11.151	
				0.000		0.000	0.000	

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GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0017
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Geoid Values:

CODE	NAME	N/S DEFLECTION			E/W DEFLECTION		UNDULATION
GEOI	1	+ 0 0	2.0	- 0 0	1.5	-27.040	
GEOI	10	+ 0 0	1.2	- 0 0	0.8	-26.934	
GEOI	100	+ 0 0	1.8	- 0 0	2.0	-27.107	
GEOI	100C	+ 0 0	2.0	- 0 0	1.9	-27.240	
GEOI	101	+ 0 0	2.0	- 0 0	2.0	-27.130	
GEOI	102	+ 0 0	2.1	- 0 0	2.0	-27.168	
GEOI	103	+ 0 0	2.0	- 0 0	2.2	-27.166	
GEOI	104	+ 0 0	2.0	- 0 0	2.2	-27.157	
GEOI	105	+ 0 0	1.8	- 0 0	2.2	-27.191	
GEOI	106	+ 0 0	1.8	- 0 0	2.3	-27.181	
GEOI	107	+ 0 0	1.7	- 0 0	1.6	-27.054	
GEOI	108	+ 0 0	0.8	- 0 0	1.0	-26.978	
GEOI	109	+ 0 0	1.8	- 0 0	1.3	-27.010	
GEOI	11	+ 0 0	1.4	- 0 0	1.0	-26.979	
GEOI	110	+ 0 0	2.1	- 0 0	1.7	-27.059	
GEOI	111	+ 0 0	2.2	- 0 0	1.7	-27.085	
GEOI	112	+ 0 0	2.1	- 0 0	1.7	-27.079	
GEOI	113	+ 0 0	1.9	- 0 0	1.8	-27.078	
GEOI	114	+ 0 0	1.9	- 0 0	1.8	-27.079	
GEOI	115	+ 0 0	2.0	- 0 0	1.9	-27.107	
GEOI	116	+ 0 0	1.5	- 0 0	1.6	-27.051	
GEOI	117	+ 0 0	1.2	- 0 0	1.2	-27.000	
GEOI	118	+ 0 0	1.1	- 0 0	0.7	-26.946	
GEOI	119	+ 0 0	1.4	- 0 0	1.0	-26.978	
GEOI	12	+ 0 0	1.8	- 0 0	1.2	-27.008	
GEOI	120	+ 0 0	2.0	- 0 0	1.9	-27.236	
GEOI	121	+ 0 0	2.3	- 0 0	1.9	-27.115	
GEOI	122	+ 0 0	2.4	- 0 0	2.0	-27.187	
GEOI	123	+ 0 0	1.8	- 0 0	1.9	-27.265	
GEOI	124	+ 0 0	1.4	- 0 0	1.2	-27.334	
GEOI	125	+ 0 0	0.9	- 0 0	0.9	-27.386	
GEOI	126	+ 0 0	1.9	- 0 0	1.9	-27.245	
GEOI	13	+ 0 0	1.8	- 0 0	1.3	-27.014	
GEOI	14	+ 0 0	2.3	- 0 0	1.9	-27.126	
GEOI	15	+ 0 0	2.1	- 0 0	1.1	-26.930	
GEOI	16	+ 0 0	2.0	- 0 0	1.6	-27.271	
GEOI	17	+ 0 0	1.3	- 0 0	1.5	-27.031	
GEOI	18	+ 0 0	1.8	- 0 0	1.9	-27.076	
GEOI	19	+ 0 0	2.0	- 0 0	2.0	-27.130	
GEOI	2	+ 0 0	2.1	- 0 0	1.7	-27.057	
GEOI	20	+ 0 0	1.9	- 0 0	2.1	-27.194	
GEOI	21	+ 0 0	1.4	- 0 0	2.0	-27.270	
GEOI	22	+ 0 0	1.1	- 0 0	1.6	-27.306	
GEOI	23	+ 0 0	0.9	- 0 0	1.8	-27.280	
GEOI	24	+ 0 0	0.8	- 0 0	1.5	-26.998	
GEOI	25	+ 0 0	0.6	- 0 0	1.2	-26.980	
GEOI	26	+ 0 0	0.9	- 0 0	1.2	-27.000	
GEOI	27	+ 0 0	1.0	- 0 0	1.6	-27.015	
GEOI	28	+ 0 0	1.4	- 0 0	2.1	-27.061	
GEOI	29	+ 0 0	1.7	- 0 0	2.4	-27.104	
GEOI	3	+ 0 0	2.3	- 0 0	1.8	-27.097	
GEOI	30	+ 0 0	1.5	- 0 0	2.4	-27.112	
GEOI	31	- 0 0	0.1	- 0 0	0.9	-26.949	

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Geoid Values:

CODE	NAME	N/S DEFLECTION			E/W DEFLECTION		UNDULATION			
GEOI	32	+	0	0	0.7	-	0	0	0.9	-26.972
GEOI	33	+	0	0	0.9	-	0	0	1.1	-26.995
GEOI	34	+	0	0	2.0	-	0	0	2.2	-27.170
GEOI	35	+	0	0	1.8	-	0	0	2.3	-27.184
GEOI	36	+	0	0	1.6	-	0	0	2.4	-27.145
GEOI	37	+	0	0	1.5	-	0	0	2.1	-27.237
GEOI	38	+	0	0	1.4	-	0	0	1.6	-27.313
GEOI	39	+	0	0	1.8	-	0	0	2.0	-27.261
GEOI	4	+	0	0	2.2	-	0	0	1.8	-27.141
GEOI	40	+	0	0	1.9	-	0	0	1.8	-27.274
GEOI	41	+	0	0	1.9	-	0	0	1.9	-27.264
GEOI	42	+	0	0	1.7	-	0	0	1.8	-27.279
GEOI	43	+	0	0	1.7	-	0	0	1.6	-27.290
GEOI	44	+	0	0	1.4	-	0	0	1.4	-27.328
GEOI	45	+	0	0	1.4	-	0	0	1.2	-27.351
GEOI	46	+	0	0	0.9	-	0	0	0.9	-27.383
GEOI	47	+	0	0	0.9	-	0	0	1.3	-27.347
GEOI	48	+	0	0	2.0	-	0	0	2.0	-27.233
GEOI	49	+	0	0	1.9	-	0	0	2.1	-27.223
GEOI	5	+	0	0	2.4	-	0	0	1.9	-27.182
GEOI	50	+	0	0	2.0	-	0	0	2.0	-27.224
GEOI	51	+	0	0	2.2	-	0	0	1.8	-27.087
GEOI	52	+	0	0	2.2	-	0	0	1.8	-27.082
GEOI	53	+	0	0	2.0	-	0	0	1.7	-27.078
GEOI	54	+	0	0	2.1	-	0	0	1.9	-27.146
GEOI	55	+	0	0	2.1	-	0	0	1.7	-27.108
GEOI	56	+	0	0	1.9	-	0	0	1.8	-27.078
GEOI	57	+	0	0	1.9	-	0	0	1.8	-27.081
GEOI	58	+	0	0	1.9	-	0	0	1.6	-27.068
GEOI	59	+	0	0	2.1	-	0	0	1.4	-27.049
GEOI	6	+	0	0	2.0	-	0	0	1.9	-27.240
GEOI	60	+	0	0	1.9	-	0	0	1.4	-27.025
GEOI	61	+	0	0	2.0	-	0	0	2.1	-27.202
GEOI	62	+	0	0	2.0	-	0	0	2.0	-27.188
GEOI	63	+	0	0	2.1	-	0	0	2.0	-27.175
GEOI	64	+	0	0	1.6	-	0	0	1.9	-27.074
GEOI	65	+	0	0	1.1	-	0	0	0.7	-26.946
GEOI	66	+	0	0	1.1	-	0	0	0.9	-26.971
GEOI	67	+	0	0	1.2	-	0	0	1.2	-26.995
GEOI	68	+	0	0	1.3	-	0	0	1.4	-27.024
GEOI	69	+	0	0	2.2	-	0	0	1.4	-26.822
GEOI	7	+	0	0	1.3	-	0	0	1.4	-26.898
GEOI	70	+	0	0	2.0	-	0	0	1.4	-26.809
GEOI	71	+	0	0	2.1	-	0	0	1.3	-26.826
GEOI	72	+	0	0	2.3	-	0	0	1.1	-26.802
GEOI	73	+	0	0	2.3	-	0	0	1.1	-26.828
GEOI	74	+	0	0	2.9	-	0	0	1.1	-26.783
GEOI	75	+	0	0	2.8	-	0	0	1.0	-26.780
GEOI	76	+	0	0	1.5	-	0	0	2.0	-27.250
GEOI	77	+	0	0	1.9	-	0	0	2.1	-27.204
GEOI	78	+	0	0	2.0	-	0	0	2.2	-27.215
GEOI	79	+	0	0	2.0	-	0	0	2.0	-27.148
GEOI	8	+	0	0	1.3	-	0	0	1.3	-26.908

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Geoid Values:

CODE	NAME	N/S DEFLECTION	E/W DEFLECTION	UNDULATION
GEOI	80	+ 0 0	1.6 - 0 0	1.9 -27.069
GEOI	81	+ 0 0	1.8 - 0 0	2.0 -27.113
GEOI	82	+ 0 0	1.8 - 0 0	1.9 -27.091
GEOI	83	+ 0 0	2.2 - 0 0	2.0 -27.215
GEOI	84	+ 0 0	2.0 - 0 0	1.9 -27.239
GEOI	85	+ 0 0	2.0 - 0 0	2.0 -27.235
GEOI	86	+ 0 0	1.9 - 0 0	2.1 -27.198
GEOI	87	+ 0 0	1.4 - 0 0	1.8 -27.025
GEOI	88	+ 0 0	1.2 - 0 0	1.6 -27.019
GEOI	89	+ 0 0	1.3 - 0 0	1.9 -27.031
GEOI	9	+ 0 0	1.2 - 0 0	0.8 -26.920
GEOI	90	+ 0 0	1.0 - 0 0	1.5 -27.016
GEOI	91	+ 0 0	0.8 - 0 0	1.4 -27.003
GEOI	92	+ 0 0	0.9 - 0 0	1.2 -27.001
GEOI	93	+ 0 0	0.6 - 0 0	1.2 -26.979
GEOI	94	+ 0 0	1.4 - 0 0	2.1 -27.057
GEOI	95	+ 0 0	1.1 - 0 0	1.5 -27.017
GEOI	96	+ 0 0	1.2 - 0 0	1.4 -27.029
GEOI	97	+ 0 0	1.2 - 0 0	1.3 -27.017
GEOI	98	+ 0 0	1.3 - 0 0	1.6 -27.045
GEOI	99	+ 0 0	1.6 - 0 0	1.9 -27.070
GEOI	A 1257	+ 0 0	0.7 - 0 0	0.9 -27.407
GEOI	B 595	+ 0 0	2.0 - 0 0	1.4 -27.282
GEOI	E 1258	+ 0 0	0.9 - 0 0	0.8 -27.416
GEOI	LAVAPORT	+ 0 0	1.4 - 0 0	2.0 -27.271
GEOI	TXPV	+ 0 0	1.9 - 0 0	2.3 -27.187
GEOI	TXVA	+ 0 0	0.5 - 0 0	1.1 -27.483

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 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0020
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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
<hr/>							
GROUP: C012711.ASC ,obs#:		1					
DXCT	100C	13		6741.66320	0.013	0.741	
				0.018	0.018	0.83	
DYCT	100C	13		-7562.37530	-0.002	-0.085	
				0.018	0.018	0.10	
DZCT	100C	13		-12412.72030	-0.010	-0.548	
				0.018	0.018	0.61	
GROUP: C012711.ASC ,obs#:		2					
DXCT	100C	51		5038.10190	0.005	0.544	
				0.012	0.010	0.52	
DYCT	100C	51		-4776.50210	0.004	0.403	
				0.012	0.010	0.39	
DZCT	100C	51		-7660.52100	-0.009	-0.886	
				0.012	0.010	0.85	
GROUP: C012711.ASC ,obs#:		3					
DXCT	13	51		-1703.56750	-0.002	-0.546	
				0.007	0.003	0.29	
DYCT	13	51		2785.88010	-0.001	-0.423	
				0.007	0.003	0.24	
DZCT	13	51		4752.19750	0.003	0.895	
				0.007	0.003	0.49	
GROUP: C012711.ASC ,obs#:		4					
DXCT	100C	52		6985.33720	0.009	0.885	
				0.012	0.010	0.82	
DYCT	100C	52		-4362.17090	0.012	1.265	
				0.012	0.010	1.18	
DZCT	100C	52		-6480.77070	-0.011	-1.110	
				0.012	0.010	1.04	
GROUP: C012711.ASC ,obs#:		5					
DXCT	13	52		243.67290	-0.004	-0.887	
				0.008	0.004	0.53	
DYCT	13	52		3200.22350	-0.005	-1.270	
				0.008	0.004	0.77	
DZCT	13	52		5931.94400	0.005	1.115	
				0.008	0.004	0.68	
GROUP: C012711.ASC ,obs#:		6					
DXCT	100C	53		9034.90070	0.010	1.042	
				0.013	0.010	0.93	
DYCT	100C	53		-3920.73130	0.015	1.484	
				0.013	0.010	1.33	
DZCT	100C	53		-5230.71720	-0.006	-0.642	
				0.013	0.010	0.58	
GROUP: C012711.ASC ,obs#:		7					
DXCT	13	53		2293.24040	-0.006	-1.043	
				0.010	0.006	0.70	
DYCT	13	53		3641.66880	-0.008	-1.485	
				0.010	0.006	1.00	
DZCT	13	53		7182.00280	0.004	0.645	
				0.010	0.006	0.44	
GROUP: C012711.ASC ,obs#:		8					
DXCT	100C	54		7388.38860	-0.001	-0.196	
				0.009	0.004	0.11	

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 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0021
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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		100C	54	-1493.73140	0.007	1.653	
				0.009	0.004	0.96	
DZCT		100C	54	-1141.16940	-0.003	-0.770	
				0.009	0.004	0.44	
GROUP: C012711.ASC ,obs#:	9						
DXCT		13	54	646.70880	0.002	0.199	
				0.015	0.012	0.19	
DYCT		13	54	6068.67300	-0.020	-1.646	
				0.015	0.012	1.58	
DZCT		13	54	11271.54810	0.009	0.753	
				0.015	0.012	0.72	
GROUP: C012711.ASC ,obs#:	10						
DXCT		100C	55	9363.00250	0.007	0.930	
				0.011	0.007	0.68	
DYCT		100C	55	-2466.99350	0.005	0.629	
				0.012	0.007	0.47	
DZCT		100C	55	-2497.76690	-0.002	-0.233	
				0.011	0.007	0.17	
GROUP: C012711.ASC ,obs#:	11						
DXCT		13	55	2621.34180	-0.009	-0.929	
				0.013	0.010	0.78	
DYCT		13	55	5095.39410	-0.006	-0.628	
				0.013	0.010	0.53	
DZCT		13	55	9914.95930	0.002	0.231	
				0.013	0.010	0.19	
GROUP: C012711.ASC ,obs#:	12						
DXCT		100C	56	11176.87080	0.006	0.615	
				0.014	0.010	0.52	
DYCT		100C	56	-3296.95110	0.001	0.128	
				0.014	0.010	0.11	
DZCT		100C	56	-3630.14360	-0.004	-0.397	
				0.014	0.010	0.33	
GROUP: C012711.ASC ,obs#:	13						
DXCT		13	56	4435.20550	-0.005	-0.615	
				0.012	0.008	0.46	
DYCT		13	56	4265.42810	-0.001	-0.129	
				0.012	0.008	0.10	
DZCT		13	56	8782.57930	0.003	0.398	
				0.012	0.008	0.29	
GROUP: C012711.ASC ,obs#:	14						
DXCT		100C	57	12718.42930	0.006	0.539	
				0.015	0.011	0.43	
DYCT		100C	57	-2613.93550	-0.002	-0.227	
				0.015	0.011	0.18	
DZCT		100C	57	-2049.92810	-0.005	-0.512	
				0.015	0.011	0.41	
GROUP: C012711.ASC ,obs#:	15						
DXCT		13	57	5976.76400	-0.006	-0.539	
				0.015	0.010	0.43	
DYCT		13	57	4948.43660	0.002	0.226	
				0.015	0.010	0.18	
DZCT		13	57	10362.79140	0.005	0.512	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
					0.015	0.010	0.40
GROUP:	C012711.ASC ,obs#:	16					
DXCT	100C	58		12993.12930	0.007	0.581	
				0.016	0.011	0.49	
DYCT	100C	58		-3110.65670	-0.010	-0.836	
				0.016	0.012	0.70	
DZCT	100C	58		-2901.14390	-0.010	-0.863	
				0.016	0.011	0.73	
GROUP:	C012711.ASC ,obs#:	17					
DXCT	13	58		6251.46480	-0.005	-0.581	
				0.014	0.009	0.44	
DYCT	13	58		4451.70280	0.008	0.836	
				0.014	0.009	0.63	
DZCT	13	58		9511.56840	0.008	0.863	
				0.014	0.009	0.65	
GROUP:	C012711.ASC ,obs#:	18					
DXCT	100C	59		9016.24950	0.013	1.009	
				0.015	0.013	1.02	
DYCT	100C	59		-5180.96060	0.010	0.745	
				0.015	0.013	0.76	
DZCT	100C	59		-7546.55900	0.007	0.568	
				0.015	0.013	0.58	
GROUP:	C012711.ASC ,obs#:	19					
DXCT	13	59		2274.58890	-0.003	-1.009	
				0.007	0.003	0.47	
DYCT	13	59		2381.42810	-0.002	-0.740	
				0.007	0.003	0.35	
DZCT	13	59		4866.18020	-0.002	-0.556	
				0.007	0.003	0.27	
GROUP:	C012711.ASC ,obs#:	20					
DXCT	100C	60		9446.00930	0.019	1.214	
				0.017	0.016	1.30	
DYCT	100C	60		-6227.61760	0.012	0.732	
				0.017	0.016	0.79	
DZCT	100C	60		-9373.29870	-0.007	-0.435	
				0.017	0.016	0.47	
GROUP:	C012711.ASC ,obs#:	21					
DXCT	13	60		2704.35360	-0.002	-1.223	
				0.005	0.001	0.39	
DYCT	13	60		1334.77190	-0.001	-0.757	
				0.005	0.001	0.25	
DZCT	13	60		3039.42390	0.001	0.471	
				0.005	0.001	0.15	
GROUP:	C012711.ASC ,obs#:	22					
DXCT	100C	TXPV		16923.91610	0.006	0.250	
				0.024	0.024	0.28	
DYCT	100C	TXPV		4440.50600	-0.009	-0.390	
				0.024	0.024	0.44	
DZCT	100C	TXPV		11727.39710	0.030	1.274	
				0.024	0.024	1.44	
GROUP:	C012711.ASC ,obs#:	23					
DXCT	13	TXPV		10182.25180	-0.006	-0.190	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DYCT	13		TXPV		0.033	0.033	0.22
				12002.87870		-0.005	-0.159
					0.033	0.033	0.18
DZCT	13		TXPV		24140.12000	0.038	1.153
					0.033	0.033	1.31
GROUP: C012711.ASC ,obs#:	24						
DXCT	100C		TXVA		-10079.45200	0.009	0.203
					0.043	0.042	0.23
DYCT	100C		TXVA		18177.66600	0.010	0.235
					0.043	0.042	0.27
DZCT	100C		TXVA		30860.91500	0.014	0.322
					0.043	0.042	0.37
GROUP: C012711.ASC ,obs#:	25						
DXCT	13		TXVA		-16821.11610	-0.004	-0.062
					0.061	0.061	0.07
DYCT	13		TXVA		25740.03910	0.014	0.226
					0.061	0.061	0.26
DZCT	13		TXVA		43273.63780	0.021	0.347
					0.061	0.061	0.40
GROUP: C013111.ASC ,obs#:	26						
DXCT	13	100C			-6741.70490	0.028	1.583
					0.018	0.018	1.77
DYCT	13	100C			7562.39320	-0.016	-0.911
					0.018	0.018	1.02
DZCT	13	100C			12412.72640	0.004	0.209
					0.018	0.018	0.23
GROUP: C013111.ASC ,obs#:	27						
DXCT	13	61			1178.56750	0.046	2.410
					0.021	0.019	2.46
DYCT	13	61			8807.20070	0.010	0.496
					0.022	0.019	0.51
DZCT	13	61			16395.27450	0.005	0.262
					0.021	0.019	0.27
GROUP: C013111.ASC ,obs#:	28						
DXCT	100C	61			7920.30040	-0.011	-2.410
					0.010	0.004	1.18
DYCT	100C	61			1244.83560	-0.002	-0.495
					0.010	0.004	0.24
DZCT	100C	61			3982.55050	-0.001	-0.263
					0.010	0.004	0.13
GROUP: C013111.ASC ,obs#:	29						
DXCT	13	62			6.56120	0.048	2.906
					0.018	0.017	3.00
DYCT	13	62			7681.77270	0.021	1.231
					0.019	0.017	1.28
DZCT	13	62			14085.09340	-0.027	-1.642
					0.018	0.017	1.70
GROUP: C013111.ASC ,obs#:	30						
DXCT	100C	62			6748.29490	-0.009	-2.912
					0.008	0.003	1.31
DYCT	100C	62			119.42040	-0.004	-1.253
					0.008	0.003	0.57

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		100C	62		1672.33070	0.005	1.658
					0.008	0.003	0.75
GROUP: C013111.ASC , obs#:	31						
DXCT		13	63		-1313.36610	0.037	2.636
					0.016	0.014	2.73
DYCT		13	63		6649.14440	0.003	0.238
					0.016	0.014	0.25
DZCT		13	63		11912.81850	-0.010	-0.713
					0.016	0.014	0.74
GROUP: C013111.ASC , obs#:	32						
DXCT		100C	63		5428.35390	-0.006	-2.641
					0.006	0.002	1.11
DYCT		100C	63		-913.22840	-0.001	-0.271
					0.006	0.002	0.12
DZCT		100C	63		-499.92350	0.002	0.733
					0.006	0.002	0.32
GROUP: C013111.ASC , obs#:	33						
DXCT		13	B 595		-18585.98460	0.018	0.899
					0.024	0.020	0.86
DYCT		13	B 595		5818.13510	-0.018	-0.922
					0.024	0.020	0.89
DZCT		13	B 595		6625.86810	0.010	0.520
					0.024	0.020	0.50
GROUP: C013111.ASC , obs#:	34						
DXCT		100C	B 595		-11844.28310	-0.007	-0.900
					0.015	0.008	0.55
DYCT		100C	B 595		-1744.26750	0.008	0.921
					0.015	0.008	0.57
DZCT		100C	B 595		-5786.84760	-0.004	-0.517
					0.015	0.008	0.32
GROUP: C020111.ASC , obs#:	35						
DXCT		LAVAPORT	17		13123.41300	0.004	0.188
					0.020	0.019	0.21
DYCT		LAVAPORT	17		-6379.30320	0.013	0.667
					0.020	0.019	0.76
DZCT		LAVAPORT	17		-8859.51980	0.014	0.728
					0.020	0.019	0.83
GROUP: C020111.ASC , obs#:	36						
DXCT		LAVAPORT	64		7316.79920	-0.004	-0.260
					0.016	0.015	0.27
DYCT		LAVAPORT	64		-6569.40110	0.024	1.600
					0.016	0.015	1.67
DZCT		LAVAPORT	64		-10424.81740	0.010	0.640
					0.016	0.015	0.67
GROUP: C020111.ASC , obs#:	37						
DXCT		17	64		-5806.62200	0.001	0.256
					0.007	0.003	0.11
DYCT		17	64		-190.08260	-0.004	-1.582
					0.007	0.003	0.72
DZCT		17	64		-1565.30050	-0.002	-0.602
					0.007	0.003	0.27
GROUP: C020111.ASC , obs#:	38						

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 1101205 CALHOUN CO CONSTRAINED ADJ
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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DXCT		LAVAPORT	65	13289.16870	0.001	0.028	
				0.033	0.030	0.03	
DYCT		LAVAPORT	65	-13582.34240	0.008	0.278	
				0.034	0.030	0.29	
DZCT		LAVAPORT	65	-22005.12530	0.018	0.604	
				0.033	0.030	0.61	
GROUP: C020111.ASC , obs#:	39						
DXCT	17		65	165.75310	-0.000	-0.028	
				0.017	0.008	0.01	
DYCT	17		65	-7203.04160	-0.002	-0.281	
				0.017	0.008	0.15	
DZCT	17		65	-13145.59700	-0.005	-0.606	
				0.017	0.008	0.32	
GROUP: C020111.ASC , obs#:	40						
DXCT		LAVAPORT	66	11852.05730	0.004	0.160	
				0.029	0.026	0.17	
DYCT		LAVAPORT	66	-11912.52700	0.009	0.338	
				0.029	0.027	0.35	
DZCT		LAVAPORT	66	-19246.82490	0.021	0.778	
				0.029	0.026	0.81	
GROUP: C020111.ASC , obs#:	41						
DXCT	17		66	-1271.35420	-0.001	-0.160	
				0.014	0.006	0.08	
DYCT	17		66	-5533.22580	-0.002	-0.338	
				0.014	0.006	0.16	
DZCT	17		66	-10387.29420	-0.004	-0.778	
				0.014	0.006	0.37	
GROUP: C020111.ASC , obs#:	42						
DXCT		LAVAPORT	67	10242.51950	-0.010	-0.414	
				0.026	0.024	0.43	
DYCT		LAVAPORT	67	-10529.18650	0.014	0.601	
				0.026	0.024	0.63	
DZCT		LAVAPORT	67	-17053.32090	-0.002	-0.068	
				0.026	0.024	0.07	
GROUP: C020111.ASC , obs#:	43						
DXCT	17		67	-2880.90870	0.002	0.414	
				0.011	0.004	0.19	
DYCT	17		67	-4149.87940	-0.003	-0.601	
				0.011	0.004	0.27	
DZCT	17		67	-8193.81710	0.000	0.068	
				0.011	0.004	0.03	
GROUP: C020111.ASC , obs#:	44						
DXCT		LAVAPORT	68	8194.48220	-0.002	-0.080	
				0.023	0.021	0.08	
DYCT		LAVAPORT	68	-9309.49410	0.021	1.023	
				0.023	0.021	1.08	
DZCT		LAVAPORT	68	-15250.75990	-0.001	-0.044	
				0.023	0.021	0.05	
GROUP: C020111.ASC , obs#:	45						
DXCT	17		68	-4928.93640	0.000	0.080	
				0.010	0.004	0.04	
DYCT	17		68	-2930.17850	-0.004	-1.023	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		17	68	0.010	0.004	0.47	
				-6391.25530	0.000	0.046	
				0.010	0.004	0.02	
GROUP: C020811.ASC	, obs#:	46					
DXCT		TXVA	13	16821.13680	-0.017	-0.280	
				0.061	0.061	0.32	
DYCT		TXVA	13	-25740.02720	-0.026	-0.423	
				0.061	0.061	0.48	
DZCT		TXVA	13	-43273.64660	-0.012	-0.201	
				0.061	0.061	0.23	
GROUP: C020811.ASC	, obs#:	47					
DXCT		TXPV	13	-10182.23180	-0.014	-0.422	
				0.033	0.033	0.48	
DYCT		TXPV	13	-12002.87720	0.004	0.113	
				0.033	0.033	0.13	
DZCT		TXPV	13	-24140.12230	-0.035	-1.083	
				0.033	0.033	1.23	
GROUP: C020811.ASC	, obs#:	48					
DXCT		TXVA	15	7954.41520	-0.019	-0.256	
				0.075	0.074	0.29	
DYCT		TXVA	15	-32057.79090	-0.020	-0.268	
				0.075	0.074	0.30	
DZCT		TXVA	15	-56848.78490	-0.005	-0.062	
				0.075	0.074	0.07	
GROUP: C020811.ASC	, obs#:	49					
DXCT		TXPV	15	-19048.95350	-0.016	-0.307	
				0.053	0.051	0.34	
DYCT		TXPV	15	-18320.63950	0.008	0.155	
				0.053	0.051	0.17	
DZCT		TXPV	15	-37715.26160	-0.027	-0.521	
				0.053	0.051	0.58	
GROUP: C020811.ASC	, obs#:	50					
DXCT		13	69	3965.73650	0.008	0.507	
				0.022	0.017	0.44	
DYCT		13	69	-9292.94060	0.027	1.561	
				0.022	0.017	1.39	
DZCT		13	69	-16278.60730	0.000	0.011	
				0.022	0.017	0.01	
GROUP: C020811.ASC	, obs#:	51					
DXCT		15	69	12832.47270	-0.004	-0.504	
				0.015	0.008	0.30	
DYCT		15	69	-2975.14330	-0.013	-1.560	
				0.016	0.008	0.95	
DZCT		15	69	-2703.47620	-0.000	-0.023	
				0.015	0.008	0.01	
GROUP: C020811.ASC	, obs#:	52					
DXCT		13	70	2609.04670	0.004	0.197	
				0.024	0.019	0.18	
DYCT		13	70	-10133.17440	-0.019	-0.991	
				0.024	0.019	0.92	
DZCT		13	70	-18128.89030	0.016	0.817	
				0.024	0.019	0.74	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
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GROUP: C020811.ASC , obs#:	53						
DXCT	15	70		11475.77560	-0.001	-0.201	
				0.015	0.007	0.11	
DYCT	15	70		-3815.44270	0.007	0.986	
				0.015	0.007	0.55	
DZCT	15	70		-4553.73820	-0.006	-0.810	
				0.015	0.007	0.45	
GROUP: C020811.ASC , obs#:	54						
DXCT	13	71		546.60480	0.009	0.499	
				0.023	0.019	0.46	
DYCT	13	71		-9791.29430	0.006	0.339	
				0.023	0.019	0.32	
DZCT	13	71		-17944.74800	0.007	0.346	
				0.023	0.019	0.32	
GROUP: C020811.ASC , obs#:	55						
DXCT	15	71		9413.34070	-0.003	-0.499	
				0.013	0.005	0.25	
DYCT	15	71		-3473.52800	-0.002	-0.339	
				0.013	0.005	0.17	
DZCT	15	71		-4369.60880	-0.002	-0.346	
				0.013	0.005	0.17	
GROUP: C020811.ASC , obs#:	56						
DXCT	13	72		-4113.19190	0.006	0.220	
				0.029	0.025	0.22	
DYCT	13	72		-11666.90470	0.028	1.091	
				0.029	0.025	1.08	
DZCT	13	72		-22435.67910	-0.018	-0.711	
				0.029	0.025	0.71	
GROUP: C020811.ASC , obs#:	57						
DXCT	15	72		4753.53850	-0.001	-0.222	
				0.013	0.005	0.10	
DYCT	15	72		-5349.11340	-0.006	-1.094	
				0.013	0.005	0.49	
DZCT	15	72		-8860.57010	0.004	0.715	
				0.013	0.005	0.32	
GROUP: C020811.ASC , obs#:	58						
DXCT	13	73		-6000.30290	-0.002	-0.096	
				0.028	0.025	0.10	
DYCT	13	73		-10843.96370	0.005	0.197	
				0.028	0.025	0.20	
DZCT	13	73		-21324.72150	-0.003	-0.103	
				0.028	0.025	0.10	
GROUP: C020811.ASC , obs#:	59						
DXCT	15	73		2866.41810	0.000	0.096	
				0.011	0.004	0.04	
DYCT	15	73		-4526.20010	-0.001	-0.197	
				0.011	0.004	0.08	
DZCT	15	73		-7749.59370	0.000	0.103	
				0.011	0.004	0.04	
GROUP: C020811.ASC , obs#:	60						
DXCT	13	74		-10823.30200	0.002	0.050	
				0.036	0.031	0.05	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		13	74	-12856.43960	-0.021	-0.687	
				0.036	0.031	0.69	
DZCT		13	74	-26122.46890	0.017	0.545	
				0.036	0.031	0.55	
GROUP: C020811.ASC , obs#:	61						
DXCT		15	74	-1956.57640	-0.000	-0.049	
				0.016	0.007	0.02	
DYCT		15	74	-6538.70760	0.005	0.688	
				0.016	0.007	0.32	
DZCT		15	74	-12547.31760	-0.004	-0.546	
				0.016	0.007	0.25	
GROUP: C020811.ASC , obs#:	62						
DXCT		13	75	-11831.00680	0.007	0.225	
				0.037	0.032	0.23	
DYCT		13	75	-13018.70230	-0.013	-0.418	
				0.037	0.032	0.42	
DZCT		13	75	-26646.98410	0.007	0.214	
				0.037	0.032	0.21	
GROUP: C020811.ASC , obs#:	63						
DXCT		15	75	-2964.27430	-0.002	-0.225	
				0.017	0.007	0.11	
DYCT		15	75	-6700.96060	0.003	0.418	
				0.017	0.007	0.20	
DZCT		15	75	-13071.84500	-0.002	-0.215	
				0.017	0.007	0.10	
GROUP: C020911.ASC , obs#:	64						
DXCT		TXPV	76	-3913.30660	0.005	1.068	
				0.005	0.005	1.10	
DYCT		TXPV	76	1370.25230	-0.013	-2.805	
				0.005	0.005	2.95	
DZCT		TXPV	76	1652.55760	-0.012	-2.668	
				0.005	0.005	2.77	
GROUP: C020911.ASC , obs#:	65						
DXCT		LAVAPORT	76	2138.72530	-0.001	-1.077	
				0.003	0.001	0.56	
DYCT		LAVAPORT	76	-110.64500	0.003	2.586	
				0.003	0.001	1.59	
DZCT		LAVAPORT	76	250.67520	0.003	2.433	
				0.003	0.001	1.34	
GROUP: C020911.ASC , obs#:	66						
DXCT		TXPV	77	-3496.31200	0.006	2.048	
				0.005	0.003	1.53	
DYCT		TXPV	77	-837.45610	-0.011	-2.985	
				0.006	0.004	2.56	
DZCT		TXPV	77	-2276.87700	-0.003	-0.987	
				0.005	0.003	0.74	
GROUP: C020911.ASC , obs#:	67						
DXCT		LAVAPORT	77	2555.72940	-0.009	-2.051	
				0.006	0.004	1.81	
DYCT		LAVAPORT	77	-2318.36290	0.015	2.990	
				0.007	0.005	3.01	
DZCT		LAVAPORT	77	-3678.75180	0.004	0.997	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
						0.006	0.005 0.89
GROUP:	C020911.ASC ,obs#:	68					
DXCT	TXPV	78		-8339.90530	0.010	1.094	
				0.012	0.009	0.97	
DYCT	TXPV	78		-2330.66140	-0.027	-2.850	
				0.012	0.009	2.56	
DZCT	TXPV	78		-6031.92620	-0.001	-0.137	
				0.012	0.009	0.12	
GROUP:	C020911.ASC ,obs#:	69					
DXCT	LAVAPORT	78		-2287.86240	-0.007	-1.096	
				0.010	0.006	0.80	
DYCT	LAVAPORT	78		-3811.58730	0.018	2.851	
				0.010	0.006	2.09	
DZCT	LAVAPORT	78		-7433.79550	0.001	0.140	
				0.010	0.006	0.10	
GROUP:	C020911.ASC ,obs#:	70					
DXCT	TXPV	79		-4582.96550	0.006	0.836	
				0.011	0.008	0.65	
DYCT	TXPV	79		-3876.52620	-0.006	-0.759	
				0.012	0.008	0.59	
DZCT	TXPV	79		-8046.60680	-0.009	-1.095	
				0.012	0.008	0.85	
GROUP:	C020911.ASC ,obs#:	71					
DXCT	LAVAPORT	79		1469.07450	-0.008	-0.836	
				0.013	0.009	0.71	
DYCT	LAVAPORT	79		-5357.41990	0.007	0.760	
				0.013	0.009	0.64	
DZCT	LAVAPORT	79		-9448.49260	0.010	1.095	
				0.013	0.009	0.93	
GROUP:	C020911.ASC ,obs#:	72					
DXCT	TXPV	80		-87.73490	0.009	1.050	
				0.014	0.009	0.75	
DYCT	TXPV	80		-5996.70130	-0.009	-0.977	
				0.014	0.009	0.70	
DZCT	TXPV	80		-10968.71500	0.002	0.256	
				0.014	0.009	0.18	
GROUP:	C020911.ASC ,obs#:	73					
DXCT	LAVAPORT	80		5964.31490	-0.015	-1.047	
				0.018	0.014	0.94	
DYCT	LAVAPORT	80		-7477.60460	0.014	0.978	
				0.018	0.014	0.89	
DZCT	LAVAPORT	80		-12370.57610	-0.004	-0.265	
				0.018	0.014	0.24	
GROUP:	C020911.ASC ,obs#:	74					
DXCT	TXPV	81		-1935.86830	0.005	0.691	
				0.011	0.007	0.49	
DYCT	TXPV	81		-4477.55100	-0.006	-0.868	
				0.011	0.007	0.63	
DZCT	TXPV	81		-8584.00250	0.002	0.298	
				0.011	0.007	0.22	
GROUP:	C020911.ASC ,obs#:	75					
DXCT	LAVAPORT	81		4116.17000	-0.008	-0.693	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		LAVAPORT	81	0.014	0.011	0.62	
				-5958.44760	0.010	0.866	
DZCT		LAVAPORT	81	0.014	0.011	0.78	
				-9985.86430	-0.003	-0.289	
				0.014	0.011	0.26	
GROUP: C020911.ASC ,obs#:	76						
DXCT		TXPV	82	-3209.78870	0.004	0.390	
				0.016	0.010	0.30	
DYCT		TXPV	82	-6154.72430	-0.005	-0.452	
				0.016	0.010	0.34	
DZCT		TXPV	82	-11918.43040	-0.001	-0.051	
				0.016	0.010	0.04	
GROUP: C020911.ASC ,obs#:	77						
DXCT		LAVAPORT	82	2842.24640	-0.005	-0.390	
				0.018	0.013	0.34	
DYCT		LAVAPORT	82	-7635.61600	0.006	0.451	
				0.018	0.014	0.40	
DZCT		LAVAPORT	82	-13320.29870	0.001	0.047	
				0.018	0.014	0.04	
GROUP: C020911.ASC ,obs#:	78						
DXCT		TXPV	83	-16145.65270	0.002	0.127	
				0.024	0.018	0.11	
DYCT		TXPV	83	-5236.28220	-0.015	-0.800	
				0.025	0.018	0.69	
DZCT		TXPV	83	-13014.12350	-0.009	-0.465	
				0.024	0.018	0.40	
GROUP: C020911.ASC ,obs#:	79						
DXCT		LAVAPORT	83	-10093.62280	-0.002	-0.126	
				0.022	0.014	0.10	
DYCT		LAVAPORT	83	-6717.18920	0.012	0.799	
				0.022	0.014	0.61	
DZCT		LAVAPORT	83	-14416.00580	0.007	0.464	
				0.022	0.014	0.35	
GROUP: C020911.ASC ,obs#:	80						
DXCT		TXPV	84	-15234.21090	0.007	0.437	
				0.022	0.016	0.38	
DYCT		TXPV	84	-3899.39330	-0.008	-0.493	
				0.022	0.017	0.43	
DZCT		TXPV	84	-10372.80190	-0.010	-0.621	
				0.022	0.017	0.54	
GROUP: C020911.ASC ,obs#:	81						
DXCT		LAVAPORT	84	-9182.17280	-0.005	-0.437	
				0.018	0.012	0.32	
DYCT		LAVAPORT	84	-5380.28800	0.006	0.489	
				0.018	0.012	0.37	
DZCT		LAVAPORT	84	-11774.68660	0.007	0.619	
				0.018	0.012	0.46	
GROUP: C020911.ASC ,obs#:	82						
DXCT		TXPV	85	-13875.30610	-0.008	-0.562	
				0.020	0.015	0.49	
DYCT		TXPV	85	-3587.80130	-0.041	-2.717	
				0.020	0.015	2.40	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		TXPV	85	-9509.33810	0.004	0.231	
				0.020	0.015	0.20	
GROUP: C020911.ASC , obs#:	83						
DXCT		LAVAPORT	85	-7823.29470	0.006	0.560	
				0.016	0.011	0.41	
DYCT		LAVAPORT	85	-5068.75200	0.029	2.715	
				0.016	0.011	1.99	
DZCT		LAVAPORT	85	-10911.19940	-0.002	-0.222	
				0.016	0.011	0.16	
GROUP: C020911.ASC , obs#:	84						
DXCT		TXPV	86	-2564.45780	0.008	4.153	
				0.004	0.002	2.52	
DYCT		TXPV	86	-694.84630	-0.007	-3.245	
				0.004	0.002	2.11	
DZCT		TXPV	86	-1818.95660	-0.002	-1.036	
				0.004	0.002	0.64	
GROUP: C020911.ASC , obs#:	85						
DXCT		LAVAPORT	86	3487.59730	-0.021	-4.165	
				0.006	0.005	4.06	
DYCT		LAVAPORT	86	-2175.75080	0.017	3.299	
				0.006	0.005	3.25	
DZCT		LAVAPORT	86	-3220.83150	0.006	1.112	
				0.006	0.005	1.09	
GROUP: C020911.ASC , obs#:	86						
DXCT		TXPV	LAVAPORT	-6052.04720	0.021	2.933	
				0.007	0.007	3.35	
DYCT		TXPV	LAVAPORT	1480.90880	-0.028	-3.839	
				0.007	0.007	4.40	
DZCT		TXPV	LAVAPORT	1401.87600	-0.009	-1.213	
				0.007	0.007	1.39	
GROUP: C120910.ASC , obs#:	87						
DXCT		LAVAPORT	1	-4055.79450	-0.005	-0.168	
				0.030	0.027	0.17	
DYCT		LAVAPORT	1	-12183.28350	0.009	0.323	
				0.030	0.027	0.33	
DZCT		LAVAPORT	1	-23135.78390	-0.022	-0.804	
				0.030	0.027	0.81	
GROUP: C120910.ASC , obs#:	88						
DXCT		100C	1	6816.09610	0.001	0.168	
				0.016	0.007	0.09	
DYCT		100C	1	-6261.89510	-0.002	-0.324	
				0.016	0.007	0.17	
DZCT		100C	1	-10006.51650	0.006	0.804	
				0.016	0.007	0.42	
GROUP: C120910.ASC , obs#:	89						
DXCT		LAVAPORT	100C	-10871.88840	-0.008	-0.387	
				0.021	0.020	0.44	
DYCT		LAVAPORT	100C	-5921.38510	0.008	0.377	
				0.021	0.020	0.43	
DZCT		LAVAPORT	100C	-13129.29150	-0.003	-0.156	
				0.021	0.020	0.18	
GROUP: C120910.ASC , obs#:	90						

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DXCT		LAVAPORT	2	-5004.31680	-0.004	-0.138	
				0.030	0.027	0.14	
DYCT		LAVAPORT	2	-11720.64780	0.019	0.723	
				0.030	0.027	0.74	
DZCT		LAVAPORT	2	-22487.16190	-0.013	-0.500	
				0.030	0.027	0.51	
GROUP: C120910.ASC ,obs#:	91						
DXCT		100C	2	5867.57500	0.001	0.138	
				0.014	0.006	0.07	
DYCT		100C	2	-5799.24670	-0.004	-0.723	
				0.014	0.006	0.36	
DZCT		100C	2	-9357.88360	0.003	0.499	
				0.014	0.006	0.25	
GROUP: C120910.ASC ,obs#:	92						
DXCT		LAVAPORT	3	-6238.03640	0.006	0.227	
				0.027	0.025	0.24	
DYCT		LAVAPORT	3	-10389.84430	0.012	0.464	
				0.027	0.025	0.49	
DZCT		LAVAPORT	3	-20312.21190	-0.038	-1.496	
				0.027	0.025	1.59	
GROUP: C120910.ASC ,obs#:	93						
DXCT		100C	3	4633.86650	-0.001	-0.229	
				0.011	0.004	0.10	
DYCT		100C	3	-4468.45330	-0.002	-0.472	
				0.011	0.004	0.20	
DZCT		100C	3	-7182.96110	0.006	1.498	
				0.011	0.004	0.65	
GROUP: C120910.ASC ,obs#:	94						
DXCT		LAVAPORT	4	-7696.28700	0.002	0.076	
				0.025	0.023	0.08	
DYCT		LAVAPORT	4	-9004.88190	0.003	0.128	
				0.025	0.023	0.14	
DZCT		LAVAPORT	4	-18086.52840	-0.034	-1.448	
				0.025	0.023	1.56	
GROUP: C120910.ASC ,obs#:	95						
DXCT		100C	4	3175.61140	-0.000	-0.135	
				0.008	0.002	0.05	
DYCT		100C	4	-3083.50070	-0.001	-0.292	
				0.009	0.003	0.12	
DZCT		100C	4	-4957.27140	0.004	1.456	
				0.008	0.003	0.59	
GROUP: C120910.ASC ,obs#:	96						
DXCT		LAVAPORT	5	-9019.16370	-0.010	-0.464	
				0.023	0.022	0.52	
DYCT		LAVAPORT	5	-7723.65040	-0.018	-0.818	
				0.023	0.023	0.93	
DZCT		LAVAPORT	5	-16026.07010	-0.005	-0.207	
				0.023	0.022	0.23	
GROUP: C120910.ASC ,obs#:	97						
DXCT		100C	5	1852.72190	0.000	0.468	
				0.004	0.001	0.10	
DYCT		100C	5	-1802.29220	0.001	0.817	

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 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0033
 =====

Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		100C	5		0.005	0.001	0.19
				-2896.78020		0.000	0.195
					0.004	0.001	0.04
GROUP: C120910.ASC	, obs#:	98					
DXCT		LAVAPORT	6		-10876.27520	-0.010	-0.499
					0.021	0.020	0.57
DYCT		LAVAPORT	6		-5926.25010	0.028	1.336
					0.021	0.021	1.53
DZCT		LAVAPORT	6		-13138.89330	-0.010	-0.496
					0.021	0.020	0.56
GROUP: C120910.ASC	, obs#:	99					
DXCT		100C	6		-4.38910	-0.000	0.000*
					0.000	0.000	0.84
DYCT		100C	6		-4.84500	-0.000	0.000*
					0.001	0.000	5.23
DZCT		100C	6		-9.60880	0.000	0.000*
					0.000	0.000	1.94
GROUP: C120910.ASC	, obs#:	100					
DXCT		LAVAPORT	TXPV		6052.02320	0.003	0.353
					0.007	0.007	0.40
DYCT		LAVAPORT	TXPV		-1480.89960	0.019	2.571
					0.007	0.007	2.96
DZCT		LAVAPORT	TXPV		-1401.88830	0.021	2.892
					0.007	0.007	3.31
GROUP: C120910.ASC	, obs#:	101					
DXCT		100C	TXPV		16923.91340	0.009	0.363
					0.024	0.024	0.41
DYCT		100C	TXPV		4440.49280	0.004	0.161
					0.024	0.024	0.18
DZCT		100C	TXPV		11727.40020	0.027	1.142
					0.024	0.024	1.30
GROUP: C120910.ASC	, obs#:	102					
DXCT		LAVAPORT	TXVA		-20951.34490	0.005	0.152
					0.034	0.034	0.17
DYCT		LAVAPORT	TXVA		12256.26680	0.032	0.924
					0.034	0.034	1.06
DZCT		LAVAPORT	TXVA		17731.62850	0.005	0.159
					0.034	0.034	0.18
GROUP: C120910.ASC	, obs#:	103					
DXCT		100C	TXVA		-10079.45520	0.012	0.279
					0.043	0.042	0.32
DYCT		100C	TXVA		18177.65210	0.024	0.562
					0.043	0.042	0.64
DZCT		100C	TXVA		30860.92180	0.007	0.161
					0.043	0.042	0.18
GROUP: C121010.ASC	, obs#:	104					
DXCT		LAVAPORT	10		8021.69370	-0.003	-0.081
					0.037	0.033	0.08
DYCT		LAVAPORT	10		-15931.07650	0.002	0.054
					0.037	0.033	0.05
DZCT		LAVAPORT	10		-27438.55960	0.014	0.425
					0.037	0.033	0.42

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
GROUP: C121010.ASC ,obs#: 105							
DXCT	100C		10		18893.57420 0.029	0.013 0.023	0.577 0.51
DYCT	100C		10		-10009.69680 0.030	-0.001 0.023	-0.024 0.02
DZCT	100C		10		-14309.25190 0.029	0.001 0.023	0.035 0.03
GROUP: C121010.ASC ,obs#: 106							
DXCT	TXPV		10		1969.67860 0.034	-0.013 0.029	-0.461 0.45
DYCT	TXPV		10		-14450.19740 0.035	0.003 0.030	0.114 0.11
DZCT	TXPV		10		-26036.66530 0.035	-0.013 0.029	-0.458 0.45
GROUP: C121010.ASC ,obs#: 107							
DXCT	TXVA		10		28973.04030 0.069	-0.010 0.067	-0.143 0.16
DYCT	TXVA		10		-28187.35810 0.070	-0.015 0.067	-0.227 0.25
DZCT	TXVA		10		-45170.18140 0.069	0.002 0.067	0.025 0.03
GROUP: C121010.ASC ,obs#: 108							
DXCT	TXPV		100C		-16923.90160 0.024	-0.020 0.024	-0.857 0.97
DYCT	TXPV		100C		-4440.49540 0.024	-0.001 0.024	-0.053 0.06
DZCT	TXPV		100C		-11727.40910 0.024	-0.018 0.024	-0.771 0.88
GROUP: C121010.ASC ,obs#: 109							
DXCT	TXVA		100C		10079.46540 0.043	-0.022 0.042	-0.519 0.59
DYCT	TXVA		100C		-18177.66290 0.043	-0.013 0.042	-0.308 0.35
DZCT	TXVA		100C		-30860.92410 0.043	-0.005 0.042	-0.107 0.12
GROUP: C121010.ASC ,obs#: 110							
DXCT	LAVAPORT		11		5538.81980 0.031	-0.004 0.027	-0.151 0.15
DYCT	LAVAPORT		11		-13059.80470 0.031	0.001 0.027	0.037 0.04
DZCT	LAVAPORT		11		-22685.13230 0.031	0.016 0.027	0.590 0.59
GROUP: C121010.ASC ,obs#: 111							
DXCT	100C		11		16410.70060 0.023	0.011 0.018	0.649 0.57
DYCT	100C		11		-7138.44020 0.023	0.014 0.018	0.781 0.68
DZCT	100C		11		-9555.80860 0.024	-0.013 0.018	-0.741 0.65
GROUP: C121010.ASC ,obs#: 112							
DXCT	TXPV		11		-513.19900 0.028	-0.011 0.023	-0.469 0.45

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		TXPV	11	-11578.90860	0.029	-0.014	-0.589
				0.029		0.024	0.59
DZCT		TXPV	11	-21283.25090	0.029	0.002	0.063
				0.029		0.025	0.06
GROUP: C121010.ASC ,obs#:	113						
DXCT		TXVA	11	26490.16670	0.062	-0.011	-0.186
				0.062		0.061	0.21
DYCT		TXVA	11	-25316.06730	0.063	-0.035	-0.574
				0.063		0.061	0.64
DZCT		TXVA	11	-40416.77570	0.063	0.025	0.413
				0.063		0.061	0.46
GROUP: C121010.ASC ,obs#:	114						
DXCT		LAVAPORT	12	59.77430	0.030	-0.005	-0.172
				0.030		0.027	0.18
DYCT		LAVAPORT	12	-12649.54810	0.030	0.006	0.210
				0.030		0.027	0.21
DZCT		LAVAPORT	12	-23102.39100	0.030	0.013	0.501
				0.030		0.027	0.51
GROUP: C121010.ASC ,obs#:	115						
DXCT		100C	12	10931.65930	0.019	0.007	0.525
				0.019		0.013	0.41
DYCT		100C	12	-6728.16300	0.019	-0.002	-0.160
				0.019		0.013	0.13
DZCT		100C	12	-9973.08370	0.019	0.001	0.066
				0.019		0.013	0.05
GROUP: C121010.ASC ,obs#:	116						
DXCT		TXPV	12	-5992.24810	0.029	-0.008	-0.315
				0.029		0.025	0.32
DYCT		TXPV	12	-11168.66620	0.029	0.004	0.173
				0.029		0.026	0.18
DZCT		TXPV	12	-21700.49460	0.029	-0.016	-0.614
				0.029		0.026	0.63
GROUP: C121010.ASC ,obs#:	117						
DXCT		TXVA	12	21011.12530	0.060	-0.016	-0.274
				0.060		0.058	0.31
DYCT		TXVA	12	-24905.82210	0.060	-0.019	-0.324
				0.060		0.058	0.36
DZCT		TXVA	12	-40834.01650	0.060	0.005	0.086
				0.060		0.058	0.10
GROUP: C121010.ASC ,obs#:	118						
DXCT		LAVAPORT	13	-4130.21510	0.033	-0.005	-0.142
				0.033		0.033	0.16
DYCT		LAVAPORT	13	-13483.75480	0.033	0.001	0.017
				0.033		0.033	0.02
DZCT		LAVAPORT	13	-25542.03710	0.033	0.012	0.371
				0.033		0.033	0.42
GROUP: C121010.ASC ,obs#:	119						
DXCT		100C	13	6741.66510	0.018	0.011	0.634
				0.018		0.018	0.71
DYCT		100C	13	-7562.37840	0.019	0.002	0.086
				0.019		0.018	0.10
DZCT		100C	13	-12412.73450	0.004		0.242

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
						0.018	0.018 0.27
GROUP:	C121010.ASC ,obs#:	120					
DXCT	TXPV	13		-10182.23040	-0.015	-0.463	
				0.033	0.033	0.53	
DYCT	TXPV	13		-12002.84750	-0.026	-0.766	
				0.034	0.034	0.90	
DZCT	TXPV	13		-24140.14880	-0.009	-0.270	
				0.033	0.033	0.31	
GROUP:	C121010.ASC ,obs#:	121					
DXCT	TXVA	13		16821.13270	-0.013	-0.212	
				0.061	0.061	0.24	
DYCT	TXVA	13		-25740.01910	-0.034	-0.554	
				0.061	0.061	0.64	
DZCT	TXVA	13		-43273.66520	0.006	0.106	
				0.061	0.061	0.12	
GROUP:	C121010.ASC ,obs#:	122					
DXCT	TXPV	14		-10782.67910	0.005	0.214	
				0.023	0.022	0.23	
DYCT	TXPV	14		-7199.11420	-0.002	-0.101	
				0.024	0.023	0.11	
DZCT	TXPV	14		-15451.98630	-0.016	-0.695	
				0.024	0.022	0.78	
GROUP:	C121010.ASC ,obs#:	123					
DXCT	TXVA	14		16220.69450	-0.003	-0.070	
				0.050	0.049	0.08	
DYCT	TXVA	14		-20936.26950	-0.026	-0.530	
				0.050	0.050	0.60	
DZCT	TXVA	14		-34585.49980	-0.003	-0.066	
				0.050	0.049	0.07	
GROUP:	C121010.ASC ,obs#:	124					
DXCT	LAVAPORT	14		-4730.65120	0.003	0.123	
				0.022	0.021	0.13	
DYCT	LAVAPORT	14		-8679.98920	-0.008	-0.382	
				0.023	0.021	0.41	
DZCT	LAVAPORT	14		-16853.87460	0.006	0.264	
				0.022	0.021	0.28	
GROUP:	C121010.ASC ,obs#:	125					
DXCT	100C	14		6141.24860	-0.001	-0.217	
				0.009	0.004	0.12	
DYCT	100C	14		-2758.62230	0.002	0.575	
				0.009	0.004	0.32	
DZCT	100C	14		-3724.57580	0.001	0.325	
				0.009	0.004	0.18	
GROUP:	C121010.ASC ,obs#:	126					
DXCT	TXPV	7		19777.95970	-0.006	-0.205	
				0.035	0.027	0.18	
DYCT	TXPV	7		-12606.64560	-0.001	-0.048	
				0.035	0.028	0.04	
DZCT	TXPV	7		-18927.72560	-0.017	-0.618	
				0.035	0.027	0.56	
GROUP:	C121010.ASC ,obs#:	127					
DXCT	TXVA	7		46781.32910	-0.009	-0.131	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DYCT		TXVA	7		0.075	0.072	0.14
				-26343.80900		-0.017	-0.239
					0.075	0.072	0.26
DZCT		TXVA	7		-38061.24660	0.003	0.044
					0.075	0.072	0.05
GROUP: C121010.ASC ,obs#:	128						
DXCT		LAVAPORT	7		25829.98020	-0.000	-0.007
					0.041	0.035	0.01
DYCT		LAVAPORT	7		-14087.54250	0.015	0.428
					0.041	0.035	0.42
DZCT		LAVAPORT	7		-20329.62280	0.013	0.384
					0.041	0.035	0.37
GROUP: C121010.ASC ,obs#:	129						
DXCT		100C	7		36701.86380	0.012	0.328
					0.044	0.038	0.33
DYCT		100C	7		-8166.14150	-0.009	-0.231
					0.044	0.038	0.23
DZCT		100C	7		-7200.32520	0.010	0.274
					0.044	0.038	0.27
GROUP: C121010.ASC ,obs#:	130						
DXCT		LAVAPORT	8		25544.86240	-0.003	-0.075
					0.040	0.034	0.07
DYCT		LAVAPORT	8		-13473.60100	0.018	0.526
					0.040	0.034	0.51
DZCT		LAVAPORT	8		-19260.13210	0.011	0.327
					0.040	0.034	0.32
GROUP: C121010.ASC ,obs#:	131						
DXCT		100C	8		36416.74450	0.012	0.311
					0.043	0.038	0.31
DYCT		100C	8		-7552.19090	-0.015	-0.400
					0.043	0.038	0.40
DZCT		100C	8		-6130.84030	0.014	0.369
					0.043	0.038	0.37
GROUP: C121010.ASC ,obs#:	132						
DXCT		TXPV	8		19492.83830	-0.004	-0.163
					0.033	0.026	0.14
DYCT		TXPV	8		-11992.69980	-0.003	-0.106
					0.034	0.026	0.10
DZCT		TXPV	8		-17858.23960	-0.014	-0.554
					0.033	0.026	0.50
GROUP: C121010.ASC ,obs#:	133						
DXCT		TXVA	8		46496.20440	-0.005	-0.068
					0.074	0.071	0.07
DYCT		TXVA	8		-25729.87890	-0.003	-0.042
					0.074	0.071	0.05
DZCT		TXVA	8		-36991.74670	-0.008	-0.118
					0.074	0.071	0.13
GROUP: C121010.ASC ,obs#:	134						
DXCT		TXPV	9		13642.21230	-0.006	-0.254
					0.032	0.025	0.23
DYCT		TXPV	9		-12616.01920	-0.003	-0.126
					0.032	0.025	0.12

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DZCT		TXPV	9	-20211.59700	0.032	-0.013	-0.504
				0.032		0.025	0.46
GROUP:	C121010.ASC ,obs#:	135					
DXCT		TXVA	9	40645.58230	0.071	-0.011	-0.158
				0.071		0.069	0.17
DYCT		TXVA	9	-26353.18850	0.072	-0.013	-0.192
				0.072		0.069	0.21
DZCT		TXVA	9	-39345.10530	0.071	-0.005	-0.078
				0.071		0.069	0.09
GROUP:	C121010.ASC ,obs#:	136					
DXCT		LAVAPORT	9	19694.23600	0.037	-0.004	-0.133
				0.037		0.032	0.13
DYCT		LAVAPORT	9	-14096.91050	0.037	0.007	0.233
				0.037		0.032	0.23
DZCT		LAVAPORT	9	-21613.48860	0.037	0.012	0.378
				0.037		0.032	0.37
GROUP:	C121010.ASC ,obs#:	137					
DXCT		100C	9	30566.11190	0.037	0.016	0.507
				0.037		0.032	0.49
DYCT		100C	9	-8175.52640	0.038	0.001	0.021
				0.038		0.032	0.02
DZCT		100C	9	-8484.18900	0.037	0.007	0.219
				0.037		0.032	0.21
GROUP:	C121010.ASC ,obs#:	138					
DXCT		TXVA	LAVAPORT	20951.34490	0.034	-0.005	-0.152
				0.034		0.034	0.17
DYCT		TXVA	LAVAPORT	-12256.27640	0.034	-0.022	-0.645
				0.034		0.034	0.74
DZCT		TXVA	LAVAPORT	-17731.62160	0.034	-0.012	-0.360
				0.034		0.034	0.41
GROUP:	C121010.ASC ,obs#:	139					
DXCT		TXPV	LAVAPORT	-6052.03390	0.007	0.008	1.111
				0.007		0.007	1.27
DYCT		TXPV	LAVAPORT	1480.90940	0.007	-0.029	-3.901
				0.007		0.007	4.49
DZCT		TXPV	LAVAPORT	1401.88630	0.007	-0.019	-2.617
				0.007		0.007	3.00
GROUP:	C121110.ASC ,obs#:	140					
DXCT		LAVAPORT	100C	-10871.89270	0.021	-0.004	-0.177
				0.021		0.020	0.20
DYCT		LAVAPORT	100C	-5921.37390	0.021	-0.003	-0.171
				0.021		0.020	0.19
DZCT		LAVAPORT	100C	-13129.28780	0.021	-0.007	-0.337
				0.021		0.020	0.38
GROUP:	C121110.ASC ,obs#:	141					
DXCT		LAVAPORT	15	-12996.91050	0.052	-0.033	-0.646
				0.052		0.051	0.72
DYCT		LAVAPORT	15	-19801.48210	0.052	-0.030	-0.589
				0.052		0.051	0.66
DZCT		LAVAPORT	15	-39117.13140	0.052	-0.024	-0.472
				0.052		0.051	0.53
GROUP:	C121110.ASC ,obs#:	142					

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DXCT		100C	15	-2125.01280	-0.034	-1.076	
				0.034	0.032	1.17	
DYCT		100C	15	-13880.09840	-0.036	-1.137	
				0.034	0.032	1.23	
DZCT		100C	15	-25987.84360	-0.017	-0.540	
				0.034	0.032	0.58	
GROUP:	C121110.ASC ,obs#:	143					
DXCT		LAVAPORT	16	-18680.87510	-0.005	-0.194	
				0.030	0.028	0.21	
DYCT		LAVAPORT	16	-7075.78050	0.025	0.887	
				0.030	0.028	0.96	
DZCT		LAVAPORT	16	-16960.52990	-0.026	-0.920	
				0.030	0.028	0.99	
GROUP:	C121110.ASC ,obs#:	144					
DXCT		100C	16	-7808.98490	0.001	0.194	
				0.010	0.003	0.07	
DYCT		100C	16	-1154.37510	-0.003	-0.888	
				0.010	0.003	0.32	
DZCT		100C	16	-3831.26420	0.003	0.921	
				0.010	0.003	0.33	
GROUP:	C121110.ASC ,obs#:	145					
DXCT		LAVAPORT	17	13123.39340	0.023	1.198	
				0.020	0.019	1.36	
DYCT		LAVAPORT	17	-6379.27250	-0.018	-0.905	
				0.020	0.020	1.04	
DZCT		LAVAPORT	17	-8859.51980	0.014	0.721	
				0.020	0.020	0.83	
GROUP:	C121110.ASC ,obs#:	146					
DXCT		100C	17	23995.29370	0.019	0.696	
				0.028	0.028	0.79	
DYCT		100C	17	-457.92910	0.016	0.582	
				0.028	0.028	0.67	
DZCT		100C	17	4269.78870	0.000	0.010	
				0.028	0.028	0.01	
GROUP:	C121110.ASC ,obs#:	147					
DXCT		LAVAPORT	18	10433.97120	-0.002	-0.272	
				0.015	0.008	0.16	
DYCT		LAVAPORT	18	-4918.77020	-0.008	-0.977	
				0.016	0.008	0.59	
DZCT		LAVAPORT	18	-6756.47080	0.003	0.410	
				0.016	0.008	0.25	
GROUP:	C121110.ASC ,obs#:	148					
DXCT		100C	18	21305.85960	0.006	0.265	
				0.026	0.022	0.26	
DYCT		100C	18	1002.57810	0.021	0.969	
				0.026	0.022	0.95	
DZCT		100C	18	6372.83580	-0.009	-0.390	
				0.026	0.022	0.39	
GROUP:	C121110.ASC ,obs#:	149					
DXCT		LAVAPORT	19	4170.53060	0.003	0.500	
				0.012	0.007	0.32	
DYCT		LAVAPORT	19	-5053.34920	-0.004	-0.540	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		LAVAPORT	19		0.012	0.007	0.35
				-8322.72500		0.003	0.454
					0.012	0.007	0.29
GROUP: C121110.ASC	, obs#:	150					
DXCT		100C	19		15042.43770	-0.007	-0.500
					0.018	0.015	0.47
DYCT		100C	19		868.01640	0.008	0.539
					0.018	0.015	0.51
DZCT		100C	19		4806.57950	-0.007	-0.453
					0.018	0.015	0.43
GROUP: C121110.ASC	, obs#:	151					
DXCT		LAVAPORT	20		2696.57300	-0.000	-0.205
					0.007	0.002	0.08
DYCT		LAVAPORT	20		-2733.19260	0.002	0.984
					0.007	0.002	0.42
DZCT		LAVAPORT	20		-4404.28400	0.003	1.444
					0.007	0.002	0.56
GROUP: C121110.ASC	, obs#:	152					
DXCT		100C	20		13568.46510	0.004	0.214
					0.019	0.017	0.23
DYCT		100C	20		3188.20560	-0.018	-1.029
					0.019	0.018	1.12
DZCT		100C	20		8725.03980	-0.026	-1.476
					0.019	0.018	1.57
GROUP: C121110.ASC	, obs#:	153					
DXCT		LAVAPORT	21		39.39710	-0.000	0.000*
					0.000	0.000	0.01
DYCT		LAVAPORT	21		-71.78500	-0.000	0.000*
					0.001	0.000	0.05
DZCT		LAVAPORT	21		-121.25410	0.000	0.000*
					0.001	0.000	0.04
GROUP: C121110.ASC	, obs#:	154					
DXCT		100C	21		10911.29410	-0.001	-0.034
					0.021	0.020	0.04
DYCT		100C	21		5849.59070	0.002	0.082
					0.021	0.021	0.09
DZCT		100C	21		13008.04630	-0.006	-0.281
					0.021	0.020	0.32
GROUP: C121710.ASC	, obs#:	155					
DXCT		LAVAPORT	17		13123.40590	0.011	0.555
					0.020	0.019	0.63
DYCT		LAVAPORT	17		-6379.28860	-0.002	-0.087
					0.020	0.019	0.10
DZCT		LAVAPORT	17		-8859.51690	0.011	0.579
					0.020	0.019	0.66
GROUP: C121710.ASC	, obs#:	156					
DXCT		LAVAPORT	22		-2548.60380	0.000	0.339
					0.003	0.001	0.06
DYCT		LAVAPORT	22		960.80240	-0.000	-0.301
					0.004	0.001	0.06
DZCT		LAVAPORT	22		1204.62090	0.000	0.689
					0.003	0.001	0.12

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
GROUP: C121710.ASC , obs#: 157							
DXCT		17	22	-15672.01200	-0.008	-0.367	
				0.023	0.023	0.41	
DYCT		17	22	7340.08610	0.006	0.281	
				0.023	0.023	0.32	
DZCT		17	22	10064.14230	-0.015	-0.680	
				0.023	0.023	0.77	
GROUP: C121710.ASC , obs#: 158							
DXCT	LAVAPORT		23	2126.26420	-0.001	-0.354	
				0.006	0.001	0.10	
DYCT	LAVAPORT		23	1962.84150	-0.001	-0.447	
				0.007	0.002	0.16	
DZCT	LAVAPORT		23	4002.02220	0.002	1.574	
				0.006	0.002	0.49	
GROUP: C121710.ASC , obs#: 159							
DXCT		17	23	-10997.15960	0.007	0.320	
				0.022	0.021	0.35	
DYCT		17	23	8342.12410	0.007	0.316	
				0.023	0.022	0.36	
DZCT		17	23	12861.56310	-0.033	-1.553	
				0.022	0.021	1.74	
GROUP: C121710.ASC , obs#: 160							
DXCT	LAVAPORT		24	25241.18470	0.007	0.289	
				0.029	0.024	0.27	
DYCT	LAVAPORT		24	-968.15400	0.010	0.435	
				0.029	0.024	0.41	
DZCT	LAVAPORT		24	3498.67640	0.001	0.048	
				0.029	0.024	0.04	
GROUP: C121710.ASC , obs#: 161							
DXCT		17	24	12117.77840	-0.003	-0.290	
				0.021	0.012	0.19	
DYCT		17	24	5411.15190	-0.005	-0.435	
				0.021	0.012	0.29	
DZCT		17	24	12358.18380	-0.001	-0.047	
				0.021	0.012	0.03	
GROUP: C121710.ASC , obs#: 162							
DXCT	LAVAPORT		25	26192.53020	0.006	0.235	
				0.030	0.025	0.23	
DYCT	LAVAPORT		25	-2593.96820	-0.015	-0.590	
				0.030	0.026	0.57	
DZCT	LAVAPORT		25	736.22070	0.008	0.319	
				0.030	0.025	0.31	
GROUP: C121710.ASC , obs#: 163							
DXCT		17	25	13069.12190	-0.002	-0.232	
				0.019	0.010	0.14	
DYCT		17	25	3785.30080	0.006	0.591	
				0.019	0.010	0.37	
DZCT		17	25	9595.73780	-0.003	-0.322	
				0.019	0.010	0.20	
GROUP: C121710.ASC , obs#: 164							
DXCT	LAVAPORT		26	21809.94070	0.006	0.278	
				0.025	0.022	0.28	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		LAVAPORT	26	-3368.63220	0.008	0.356	
				0.025	0.022	0.36	
DZCT		LAVAPORT	26	-1570.11530	-0.005	-0.237	
				0.025	0.022	0.24	
GROUP: C121710.ASC	, obs#:	165					
DXCT		17	26	8686.53200	-0.002	-0.279	
				0.013	0.006	0.15	
DYCT		17	26	3010.66830	-0.002	-0.359	
				0.014	0.006	0.19	
DZCT		17	26	7289.38360	0.002	0.240	
				0.013	0.006	0.13	
GROUP: C121710.ASC	, obs#:	166					
DXCT		LAVAPORT	27	22416.28170	0.003	0.149	
				0.026	0.021	0.14	
DYCT		LAVAPORT	27	-1434.85290	0.012	0.549	
				0.026	0.021	0.52	
DZCT		LAVAPORT	27	2076.23900	0.009	0.407	
				0.026	0.021	0.39	
GROUP: C121710.ASC	, obs#:	167					
DXCT		17	27	9292.86970	-0.001	-0.150	
				0.017	0.010	0.10	
DYCT		17	27	4944.45450	-0.005	-0.548	
				0.018	0.010	0.35	
DZCT		17	27	10935.75740	-0.004	-0.405	
				0.018	0.010	0.26	
GROUP: C121710.ASC	, obs#:	168					
DXCT		LAVAPORT	28	19091.98920	0.013	0.715	
				0.022	0.018	0.65	
DYCT		LAVAPORT	28	-322.75470	0.002	0.140	
				0.022	0.018	0.13	
DZCT		LAVAPORT	28	3408.09160	-0.002	-0.096	
				0.022	0.018	0.09	
GROUP: C121710.ASC	, obs#:	169					
DXCT		17	28	5968.59250	-0.007	-0.715	
				0.017	0.010	0.50	
DYCT		17	28	6056.53950	-0.001	-0.141	
				0.017	0.010	0.10	
DZCT		17	28	12267.59460	0.001	0.097	
				0.017	0.010	0.07	
GROUP: C121710.ASC	, obs#:	170					
DXCT		LAVAPORT	29	16213.00160	0.013	0.900	
				0.019	0.014	0.77	
DYCT		LAVAPORT	29	336.64540	0.013	0.917	
				0.020	0.015	0.80	
DZCT		LAVAPORT	29	4016.94700	0.023	1.597	
				0.019	0.014	1.36	
GROUP: C121710.ASC	, obs#:	171					
DXCT		17	29	3089.60790	-0.010	-0.900	
				0.017	0.011	0.68	
DYCT		17	29	6715.95950	-0.010	-0.919	
				0.017	0.011	0.71	
DZCT		17	29	12876.49350	-0.018	-1.599	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
						0.017	0.011 1.21
GROUP:	C121710.ASC ,obs#:	172					
DXCT	LAVAPORT	30		12451.29040	0.008	0.728	
				0.014	0.011	0.66	
DYCT	LAVAPORT	30		-1755.93530	0.011	0.958	
				0.015	0.011	0.87	
DZCT	LAVAPORT	30		-571.46990	0.024	2.108	
				0.014	0.011	1.91	
GROUP:	C121710.ASC ,obs#:	173					
DXCT	17	30		-672.11320	-0.005	-0.729	
				0.011	0.007	0.50	
DYCT	17	30		4623.37230	-0.006	-0.945	
				0.011	0.007	0.67	
DZCT	17	30		8288.07350	-0.014	-2.100	
				0.011	0.007	1.44	
GROUP:	C121710.ASC ,obs#:	174					
DXCT	LAVAPORT	31		31723.55320	0.009	0.294	
				0.037	0.031	0.28	
DYCT	LAVAPORT	31		-3939.09380	-0.003	-0.099	
				0.037	0.031	0.09	
DZCT	LAVAPORT	31		-583.54400	0.000	0.014	
				0.037	0.031	0.01	
GROUP:	C121710.ASC ,obs#:	175					
DXCT	17	31		18600.14930	-0.004	-0.294	
				0.023	0.013	0.18	
DYCT	17	31		2440.19220	0.001	0.098	
				0.024	0.013	0.06	
DZCT	17	31		8275.96230	-0.000	-0.014	
				0.024	0.013	0.01	
GROUP:	C121710.ASC ,obs#:	176					
DXCT	17	TXPV		-7071.39130	0.000	0.035	
				0.013	0.013	0.04	
DYCT	17	TXPV		4898.39770	0.012	0.925	
				0.013	0.013	1.04	
DZCT	17	TXPV		7457.63280	0.006	0.450	
				0.013	0.013	0.51	
GROUP:	C121710.ASC ,obs#:	177					
DXCT	LAVAPORT	TXPV		6052.02900	-0.003	-0.441	
				0.007	0.007	0.50	
DYCT	LAVAPORT	TXPV		-1480.90650	0.026	3.505	
				0.007	0.007	4.04	
DZCT	LAVAPORT	TXPV		-1401.88170	0.015	1.988	
				0.007	0.007	2.28	
GROUP:	C121710.ASC ,obs#:	178					
DXCT	17	TXVA		-34074.76270	0.006	0.119	
				0.054	0.054	0.14	
DYCT	17	TXVA		18635.55790	0.031	0.576	
				0.054	0.054	0.66	
DZCT	17	TXVA		26591.15010	-0.010	-0.194	
				0.054	0.054	0.22	
GROUP:	C121710.ASC ,obs#:	179					
DXCT	LAVAPORT	TXVA		-20951.35620	0.017	0.481	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		LAVAPORT	TXVA	0.034	0.034	0.55	
				12256.26860	0.030	0.871	
DZCT		LAVAPORT	TXVA	0.034	0.034	1.00	
				17731.63360	0.000	0.011	
				0.034	0.034	0.01	
GROUP: C121810.ASC , obs#:	180						
DXCT		LAVAPORT	17	13123.39490	0.022	1.123	
				0.020	0.019	1.27	
DYCT		LAVAPORT	17	-6379.29220	0.002	0.099	
				0.020	0.019	0.11	
DZCT		LAVAPORT	17	-8859.50850	0.003	0.145	
				0.020	0.019	0.16	
GROUP: C121810.ASC , obs#:	181						
DXCT		LAVAPORT	32	18012.27340	0.015	0.556	
				0.028	0.027	0.61	
DYCT		LAVAPORT	32	-9539.60380	-0.038	-1.401	
				0.028	0.027	1.53	
DZCT		LAVAPORT	32	-13617.41730	0.022	0.827	
				0.028	0.027	0.90	
GROUP: C121810.ASC , obs#:	182						
DXCT	17		32	4888.87300	-0.001	-0.554	
				0.009	0.003	0.19	
DYCT	17		32	-3160.35460	0.004	1.404	
				0.009	0.003	0.48	
DZCT	17		32	-4757.88740	-0.002	-0.833	
				0.009	0.003	0.28	
GROUP: C121810.ASC , obs#:	183						
DXCT		LAVAPORT	33	15601.90610	0.020	0.870	
				0.024	0.024	0.97	
DYCT		LAVAPORT	33	-8137.11940	-0.008	-0.354	
				0.024	0.024	0.40	
DZCT		LAVAPORT	33	-11553.36630	-0.002	-0.078	
				0.024	0.024	0.09	
GROUP: C121810.ASC , obs#:	184						
DXCT	17		33	2478.51070	-0.001	-0.868	
				0.005	0.001	0.19	
DYCT	17		33	-1757.83780	0.000	0.347	
				0.005	0.001	0.08	
DZCT	17		33	-2693.86250	0.000	0.074	
				0.005	0.001	0.02	
GROUP: C121810.ASC , obs#:	185						
DXCT		LAVAPORT	34	3890.25190	0.000	0.034	
				0.008	0.005	0.02	
DYCT		LAVAPORT	34	-3333.07220	-0.003	-0.686	
				0.009	0.005	0.47	
DZCT		LAVAPORT	34	-5245.70900	0.002	0.354	
				0.008	0.005	0.23	
GROUP: C121810.ASC , obs#:	186						
DXCT	17		34	-9233.16420	-0.000	-0.039	
				0.012	0.010	0.04	
DYCT	17		34	3046.20810	0.007	0.683	
				0.012	0.010	0.63	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		17	34		3613.80170	-0.003	-0.346
					0.012	0.010	0.32
GROUP: C121810.ASC ,obs#:	187						
DXCT	LAVAPORT		35		6210.56140	0.002	0.560
					0.008	0.004	0.32
DYCT	LAVAPORT		35		-1552.57280	-0.000	-0.033
					0.008	0.004	0.02
DZCT	LAVAPORT		35		-1513.89140	0.004	1.141
					0.008	0.004	0.67
GROUP: C121810.ASC ,obs#:	188						
DXCT		17	35		-6912.84700	-0.006	-0.562
					0.013	0.011	0.55
DYCT		17	35		4826.71720	0.000	0.014
					0.013	0.011	0.01
DZCT	LAVAPORT		35		7345.63120	-0.013	-1.142
					0.013	0.011	1.12
GROUP: C121810.ASC ,obs#:	189						
DXCT	LAVAPORT		36		12721.49010	0.012	1.214
					0.015	0.010	0.95
DYCT	LAVAPORT		36		375.71480	0.017	1.633
					0.015	0.010	1.28
DZCT	LAVAPORT		36		3361.13820	-0.016	-1.520
					0.015	0.010	1.20
GROUP: C121810.ASC ,obs#:	190						
DXCT		17	36		-401.90000	-0.014	-1.217
					0.016	0.012	1.01
DYCT		17	36		6755.04110	-0.019	-1.638
					0.016	0.012	1.37
DZCT	LAVAPORT		36		12220.61030	0.018	1.525
					0.016	0.012	1.28
GROUP: C121810.ASC ,obs#:	191						
DXCT	LAVAPORT		37		4025.22100	0.000	0.375
					0.005	0.001	0.11
DYCT	LAVAPORT		37		153.79570	-0.000	-0.144
					0.005	0.001	0.04
DZCT	LAVAPORT		37		1130.36490	-0.000	-0.056
					0.005	0.001	0.02
GROUP: C121810.ASC ,obs#:	192						
DXCT		17	37		-9098.18900	-0.006	-0.375
					0.017	0.016	0.41
DYCT		17	37		6533.08340	0.002	0.144
					0.017	0.017	0.16
DZCT	LAVAPORT		37		9989.86960	0.001	0.056
					0.017	0.017	0.06
GROUP: C121810.ASC ,obs#:	193						
DXCT	LAVAPORT		38		-5832.09660	0.003	1.512
					0.007	0.002	0.47
DYCT	LAVAPORT		38		-215.81160	0.001	0.545
					0.007	0.002	0.18
DZCT	LAVAPORT		38		-1636.38970	-0.000	-0.230
					0.007	0.002	0.07
GROUP: C121810.ASC ,obs#:	194						

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DXCT		17	38	-18955.47530	-0.035	-1.511	
				0.024	0.023	1.65	
DYCT		17	38	6163.49240	-0.013	-0.541	
				0.024	0.023	0.60	
DZCT		17	38	7223.11040	0.005	0.222	
				0.024	0.023	0.24	
GROUP: C121810.ASC , obs#:	195						
DXCT	LAVAPORT		39	-2650.15720	0.003	1.638	
				0.006	0.002	0.52	
DYCT	LAVAPORT		39	-1792.41060	0.001	0.338	
				0.006	0.002	0.11	
DZCT	LAVAPORT		39	-3825.96810	0.002	1.062	
				0.006	0.002	0.34	
GROUP: C121810.ASC , obs#:	196						
DXCT		17	39	-15773.54050	-0.031	-1.638	
				0.020	0.019	1.79	
DYCT		17	39	4586.88680	-0.007	-0.342	
				0.020	0.019	0.38	
DZCT		17	39	5033.55940	-0.020	-1.070	
				0.020	0.019	1.17	
GROUP: C121910.ASC , obs#:	197						
DXCT	LAVAPORT		100C	-10871.89740	0.001	0.054	
				0.021	0.020	0.06	
DYCT	LAVAPORT		100C	-5921.39150	0.014	0.691	
				0.021	0.020	0.78	
DZCT	LAVAPORT		100C	-13129.29030	-0.004	-0.214	
				0.021	0.020	0.24	
GROUP: C121910.ASC , obs#:	198						
DXCT	LAVAPORT		40	-16690.61850	-0.003	-0.105	
				0.027	0.026	0.12	
DYCT	LAVAPORT		40	-6336.37210	0.017	0.675	
				0.027	0.026	0.75	
DZCT	LAVAPORT		40	-15175.89510	-0.005	-0.194	
				0.027	0.026	0.21	
GROUP: C121910.ASC , obs#:	199						
DXCT	100C		40	-5818.72510	0.000	0.103	
				0.007	0.002	0.03	
DYCT	100C		40	-414.97600	-0.001	-0.676	
				0.007	0.002	0.20	
DZCT	100C		40	-2046.60580	0.000	0.199	
				0.007	0.002	0.06	
GROUP: C121910.ASC , obs#:	200						
DXCT	LAVAPORT		41	-13549.29520	0.010	0.460	
				0.023	0.022	0.52	
DYCT	LAVAPORT		41	-5775.07580	0.018	0.791	
				0.023	0.022	0.89	
DZCT	LAVAPORT		41	-13447.86660	-0.014	-0.607	
				0.023	0.022	0.68	
GROUP: C121910.ASC , obs#:	201						
DXCT	100C		41	-2677.38840	-0.000	-0.466	
				0.003	0.000	0.07	
DYCT	100C		41	146.31970	-0.000	-0.807	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		100C	41		0.003	0.000	0.13
				-318.58580		0.000	0.627
					0.003	0.000	0.10
GROUP: C121910.ASC	, obs#:	202					
DXCT		LAVAPORT	42		-8651.45840	-0.005	-0.418
					0.014	0.012	0.41
DYCT		LAVAPORT	42		-3242.88880	0.006	0.490
					0.014	0.012	0.49
DZCT		LAVAPORT	42		-7754.25780	0.016	1.333
					0.014	0.012	1.32
GROUP: C121910.ASC	, obs#:	203					
DXCT		100C	42		2220.43150	0.001	0.418
					0.007	0.003	0.22
DYCT		100C	42		2678.49610	-0.002	-0.481
					0.007	0.003	0.26
DZCT		100C	42		5375.05730	-0.005	-1.330
					0.007	0.003	0.71
GROUP: C121910.ASC	, obs#:	204					
DXCT		LAVAPORT	43		-12697.93690	0.001	0.056
					0.019	0.019	0.06
DYCT		LAVAPORT	43		-4146.23750	0.019	1.021
					0.020	0.019	1.14
DZCT		LAVAPORT	43		-10280.35830	-0.004	-0.223
					0.019	0.019	0.25
GROUP: C121910.ASC	, obs#:	205					
DXCT		100C	43		-1826.03950	-0.000	-0.066
					0.004	0.001	0.02
DYCT		100C	43		1775.16010	-0.001	-1.024
					0.005	0.001	0.27
DZCT		100C	43		2848.93200	0.000	0.238
					0.004	0.001	0.06
GROUP: C121910.ASC	, obs#:	206					
DXCT		LAVAPORT	44		-14391.52830	0.006	0.371
					0.019	0.017	0.38
DYCT		LAVAPORT	44		-2526.27620	0.010	0.559
					0.019	0.017	0.59
DZCT		LAVAPORT	44		-7690.65830	-0.006	-0.335
					0.019	0.017	0.35
GROUP: C121910.ASC	, obs#:	207					
DXCT		100C	44		-3519.62440	-0.001	-0.373
					0.008	0.003	0.17
DYCT		100C	44		3395.11280	-0.002	-0.561
					0.009	0.003	0.27
DZCT		100C	44		5438.62950	0.001	0.338
					0.008	0.003	0.16
GROUP: C121910.ASC	, obs#:	208					
DXCT		LAVAPORT	45		-15864.66740	0.004	0.214
					0.019	0.017	0.21
DYCT		LAVAPORT	45		-1405.15030	0.028	1.660
					0.020	0.017	1.64
DZCT		LAVAPORT	45		-5966.36690	-0.008	-0.453
					0.020	0.017	0.45

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
GROUP: C121910.ASC ,obs#: 209							
DXCT		100C	45	-4992.76630	-0.001	-0.218	
				0.011	0.006	0.12	
DYCT		100C	45	4516.26450	-0.009	-1.663	
				0.011	0.006	0.97	
DZCT		100C	45	7162.91760	0.003	0.462	
				0.011	0.006	0.26	
GROUP: C121910.ASC ,obs#: 210							
DXCT		LAVAPORT	46	-18394.15950	-0.001	-0.083	
				0.021	0.017	0.08	
DYCT		LAVAPORT	46	363.94930	0.017	0.987	
				0.022	0.017	0.91	
DZCT		LAVAPORT	46	-3295.13520	0.006	0.323	
				0.022	0.017	0.30	
GROUP: C121910.ASC ,obs#: 211							
DXCT		100C	46	-7522.26540	0.001	0.083	
				0.016	0.009	0.06	
DYCT		100C	46	6285.35320	-0.009	-0.985	
				0.016	0.010	0.68	
DZCT		100C	46	9834.16810	-0.003	-0.317	
				0.016	0.010	0.22	
GROUP: C121910.ASC ,obs#: 212							
DXCT		LAVAPORT	47	-8534.75920	0.003	0.693	
				0.010	0.005	0.39	
DYCT		LAVAPORT	47	1025.54790	0.003	0.581	
				0.010	0.005	0.33	
DZCT		LAVAPORT	47	42.06810	-0.001	-0.128	
				0.010	0.005	0.07	
GROUP: C121910.ASC ,obs#: 213							
DXCT		100C	47	2337.15070	-0.010	-0.693	
				0.017	0.015	0.68	
DYCT		100C	47	6946.93680	-0.009	-0.582	
				0.017	0.015	0.58	
DZCT		100C	47	13171.36020	0.002	0.131	
				0.017	0.015	0.13	
GROUP: C121910.ASC ,obs#: 214							
DXCT		LAVAPORT	48	-2452.10190	0.001	0.286	
				0.008	0.004	0.17	
DYCT		LAVAPORT	48	-3031.67790	0.005	1.070	
				0.008	0.004	0.66	
DZCT		LAVAPORT	48	-6042.25950	-0.001	-0.256	
				0.008	0.004	0.15	
GROUP: C121910.ASC ,obs#: 215							
DXCT		100C	48	8419.79870	-0.003	-0.285	
				0.013	0.011	0.27	
DYCT		100C	48	2889.71580	-0.012	-1.068	
				0.013	0.011	1.02	
DZCT		100C	48	7087.03140	0.003	0.247	
				0.013	0.011	0.23	
GROUP: C121910.ASC ,obs#: 216							
DXCT		LAVAPORT	49	611.53720	-0.000	-0.144	
				0.005	0.002	0.05	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		LAVAPORT	49	-2293.78400	0.001	0.572	
				0.006	0.002	0.20	
DZCT		LAVAPORT	49	-4046.61820	0.001	0.504	
				0.005	0.002	0.17	
GROUP: C121910.ASC	, obs#:	217					
DXCT		100C	49	11483.43090	0.002	0.146	
				0.017	0.016	0.16	
DYCT		100C	49	3627.60400	-0.010	-0.578	
				0.018	0.017	0.64	
DZCT		100C	49	9082.68560	-0.008	-0.511	
				0.017	0.016	0.55	
GROUP: C121910.ASC	, obs#:	218					
DXCT		LAVAPORT	50	-3940.18680	0.019	2.239	
				0.011	0.008	1.89	
DYCT		LAVAPORT	50	-4053.09390	0.006	0.749	
				0.012	0.008	0.64	
DZCT		LAVAPORT	50	-8221.14480	0.018	2.111	
				0.011	0.008	1.78	
GROUP: C121910.ASC	, obs#:	219					
DXCT		100C	50	6931.74270	-0.014	-2.239	
				0.010	0.006	1.65	
DYCT		100C	50	1868.29470	-0.005	-0.747	
				0.010	0.006	0.56	
DZCT		100C	50	4908.18120	-0.014	-2.108	
				0.010	0.006	1.56	
GROUP: C021211.ASC	, obs#:	220					
DXCT		TXPV	100C	-16923.93320	0.011	0.466	
				0.024	0.024	0.53	
DYCT		TXPV	100C	-4440.50480	0.008	0.340	
				0.024	0.024	0.39	
DZCT		TXPV	100C	-11727.40080	-0.027	-1.119	
				0.024	0.024	1.27	
GROUP: C021211.ASC	, obs#:	221					
DXCT		TXVA	100C	10079.43570	0.008	0.181	
				0.043	0.042	0.21	
DYCT		TXVA	100C	-18177.65030	-0.026	-0.605	
				0.043	0.042	0.69	
DZCT		TXVA	100C	-30860.92510	-0.004	-0.084	
				0.043	0.042	0.10	
GROUP: C021211.ASC	, obs#:	222					
DXCT		TXPV	A 1257	-25600.27280	-0.003	-0.119	
				0.030	0.027	0.13	
DYCT		TXPV	A 1257	3857.92360	-0.001	-0.029	
				0.030	0.030	0.03	
DZCT		TXPV	A 1257	1514.35230	-0.021	-0.760	
				0.030	0.028	0.82	
GROUP: C021211.ASC	, obs#:	223					
DXCT		TXVA	A 1257	1403.09430	-0.005	-0.244	
				0.023	0.020	0.24	
DYCT		TXVA	A 1257	-9879.21950	-0.037	-1.615	
				0.024	0.023	1.83	
DZCT		TXVA	A 1257	-17619.16990	-0.000	-0.009	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
					0.023	0.021	0.01
GROUP:	C021211.ASC ,obs#:	224					
DXCT	100C	A 1257		-8676.34340	-0.011	-0.630	
				0.021	0.017	0.59	
DYCT	100C	A 1257		8298.41580	0.004	0.181	
				0.021	0.020	0.20	
DZCT	100C	A 1257		13241.75830	0.000	0.015	
				0.021	0.018	0.02	
GROUP:	C021211.ASC ,obs#:	225					
DXCT	LAVAPORT	A 1257		-19548.26570	0.015	0.797	
				0.023	0.019	0.78	
DYCT	LAVAPORT	A 1257		2377.04340	-0.001	-0.062	
				0.023	0.022	0.07	
DZCT	LAVAPORT	A 1257		112.43410	0.030	1.476	
				0.023	0.020	1.51	
GROUP:	C021211.ASC ,obs#:	226					
DXCT	TXPV	E 1258		-29608.27440	0.001	0.037	
				0.034	0.032	0.04	
DYCT	TXPV	E 1258		3028.42700	-0.016	-0.477	
				0.034	0.034	0.54	
DZCT	TXPV	E 1258		-893.84950	-0.013	-0.408	
				0.034	0.032	0.44	
GROUP:	C021211.ASC ,obs#:	227					
DXCT	TXVA	E 1258		-2604.90480	-0.003	-0.131	
				0.026	0.023	0.13	
DYCT	TXVA	E 1258		-10708.72810	-0.040	-1.578	
				0.026	0.025	1.76	
DZCT	TXVA	E 1258		-20027.36820	0.004	0.188	
				0.026	0.024	0.19	
GROUP:	C021211.ASC ,obs#:	228					
DXCT	100C	E 1258		-12684.34150	-0.010	-0.590	
				0.021	0.016	0.53	
DYCT	100C	E 1258		7468.91200	-0.004	-0.218	
				0.021	0.020	0.24	
DZCT	100C	E 1258		10833.56440	0.000	0.028	
				0.021	0.018	0.03	
GROUP:	C021211.ASC ,obs#:	229					
DXCT	LAVAPORT	E 1258		-23556.25850	0.011	0.462	
				0.027	0.024	0.47	
DYCT	LAVAPORT	E 1258		1547.53210	-0.002	-0.068	
				0.027	0.027	0.08	
DZCT	LAVAPORT	E 1258		-2295.76750	0.038	1.514	
				0.027	0.025	1.59	
GROUP:	C021211.ASC ,obs#:	230					
DXCT	TXPV	LAVAPORT		-6052.01150	-0.014	-1.954	
				0.007	0.007	2.24	
DYCT	TXPV	LAVAPORT		1480.90880	-0.028	-3.835	
				0.007	0.007	4.40	
DZCT	TXPV	LAVAPORT		1401.89890	-0.032	-4.345	
				0.007	0.007	4.97	
							^^^^^

GROUP: C021211.ASC ,obs#:

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DXCT		TXVA	LAVAPORT	20951.35450	-0.015	-0.431	
				0.034	0.034	0.49	
DYCT		TXVA	LAVAPORT	-12256.25630	-0.042	-1.229	
				0.034	0.034	1.41	
DZCT		TXVA	LAVAPORT	-17731.61180	-0.022	-0.645	
				0.034	0.034	0.74	
GROUP: 051911.ASC	, obs#:	232					
DXCT		TXPV	87	16466.46050	-0.001	-0.033	
				0.020	0.019	0.04	
DYCT		TXPV	87	1029.91820	-0.012	-0.666	
				0.020	0.019	0.71	
DZCT		TXPV	87	5284.73570	0.015	0.803	
				0.020	0.019	0.86	
GROUP: 051911.ASC	, obs#:	233					
DXCT		TXVA	87	43469.83270	-0.007	-0.137	
				0.054	0.054	0.16	
DYCT		TXVA	87	-12707.23300	-0.040	-0.754	
				0.054	0.054	0.85	
DZCT		TXVA	87	-13848.79310	0.043	0.793	
				0.054	0.054	0.90	
GROUP: 051911.ASC	, obs#:	234					
DXCT		87	88	-77.98590	0.000	0.000*	
				0.001	0.000	0.04	
DYCT		87	88	-543.39600	0.000	1.086	
				0.002	0.000	0.14	
DZCT		87	88	-1002.35810	-0.000	-1.429	
				0.002	0.000	0.14	
GROUP: 051911.ASC	, obs#:	235					
DXCT		TXPV	88	16388.48120	-0.007	-0.388	
				0.020	0.018	0.42	
DYCT		TXPV	88	486.52790	-0.018	-0.903	
				0.021	0.020	1.06	
DZCT		TXPV	88	4282.36830	0.024	1.282	
				0.020	0.019	1.42	
GROUP: 051911.ASC	, obs#:	236					
DXCT		87	89	-1102.57320	-0.000	-0.020	
				0.002	0.000	0.00	
DYCT		87	89	-431.18130	0.000	0.098	
				0.002	0.000	0.01	
DZCT		87	89	-1012.51580	-0.000	-0.327	
				0.002	0.000	0.04	
GROUP: 051911.ASC	, obs#:	237					
DXCT		TXPV	89	15363.88630	0.000	0.023	
				0.018	0.017	0.02	
DYCT		TXPV	89	598.72560	-0.001	-0.060	
				0.019	0.018	0.07	
DZCT		TXPV	89	4272.22910	0.006	0.325	
				0.019	0.017	0.36	
GROUP: 051911.ASC	, obs#:	238					
DXCT		87	90	-715.58770	-0.000	-0.642	
				0.003	0.001	0.12	
DYCT		87	90	-1309.43000	-0.001	-1.543	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DZCT		87	90		0.004	0.001	0.31
				-2525.95380		0.000	0.367
					0.003	0.001	0.07
GROUP: 051911.ASC	, obs#:	239					
DXCT		TXPV	90		15750.86100	0.011	0.634
					0.019	0.017	0.68
DYCT		TXPV	90		-279.55280	0.028	1.546
					0.020	0.018	1.73
DZCT		TXPV	90		2758.80410	-0.007	-0.396
					0.019	0.018	0.44
GROUP: 051911.ASC	, obs#:	240					
DXCT		87	91		-166.20190	-0.002	-1.275
					0.006	0.001	0.39
DYCT		87	91		-2328.90040	0.001	0.461
					0.006	0.001	0.14
DZCT		87	91		-4269.02570	-0.000	-0.322
					0.006	0.001	0.10
GROUP: 051911.ASC	, obs#:	241					
DXCT		TXPV	91		16300.23430	0.022	1.277
					0.019	0.017	1.33
DYCT		TXPV	91		-1298.98560	-0.008	-0.469
					0.020	0.018	0.51
DZCT		TXPV	91		1015.71870	0.006	0.335
					0.019	0.017	0.35
GROUP: 051911.ASC	, obs#:	242					
DXCT		87	92		-777.79730	-0.003	-1.078
					0.007	0.002	0.42
DYCT		87	92		-2900.80500	-0.001	-0.299
					0.007	0.002	0.11
DZCT		87	92		-5436.43220	0.001	0.441
					0.007	0.002	0.17
GROUP: 051911.ASC	, obs#:	243					
DXCT		TXPV	92		15688.64260	0.017	1.085
					0.018	0.016	1.10
DYCT		TXPV	92		-1870.90580	0.006	0.335
					0.020	0.018	0.37
DZCT		TXPV	92		-151.67310	-0.007	-0.458
					0.018	0.016	0.47
GROUP: 051911.ASC	, obs#:	244					
DXCT		87	93		3914.82360	-0.000	-0.317
					0.006	0.001	0.09
DYCT		87	93		-1977.18070	0.001	0.973
					0.006	0.001	0.27
DZCT		87	93		-2793.28140	-0.000	-0.152
					0.006	0.001	0.04
GROUP: 051911.ASC	, obs#:	245					
DXCT		TXPV	93		20381.27620	0.007	0.311
					0.024	0.022	0.33
DYCT		TXPV	93		-947.25120	-0.022	-0.973
					0.025	0.023	1.08
DZCT		TXPV	93		2491.46550	0.004	0.160
					0.024	0.022	0.17

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
<hr/>							
GROUP:	051911.ASC	, obs#:	246				
DXCT		87	94	-2978.51130	0.002	2.525	
				0.003	0.001	0.55	
DYCT		87	94	92.49290	-0.001	-1.119	
				0.004	0.001	0.26	
DZCT		87	94	-451.82200	0.001	2.119	
				0.004	0.001	0.47	
GROUP:	051911.ASC	, obs#:	247				
DXCT		TXPV	94	13487.98780	-0.038	-2.531	
				0.017	0.015	2.61	
DYCT		TXPV	94	1122.38130	0.017	1.093	
				0.017	0.015	1.16	
DZCT		TXPV	94	4832.96140	-0.031	-2.100	
				0.017	0.015	2.18	
GROUP:	052011.ASC	, obs#:	248				
DXCT		17	100	-7719.90270	0.007	1.149	
				0.009	0.006	0.85	
DYCT		17	100	694.81700	-0.004	-0.749	
				0.009	0.006	0.55	
DZCT		17	100	-354.34100	0.006	1.041	
				0.009	0.006	0.77	
GROUP:	052011.ASC	, obs#:	249				
DXCT		TXPV	100	-648.49630	-0.009	-1.153	
				0.010	0.008	1.01	
DYCT		TXPV	100	-4203.60370	0.007	0.803	
				0.011	0.009	0.77	
DZCT		TXPV	100	-7811.96490	-0.009	-1.085	
				0.011	0.008	0.98	
GROUP:	052011.ASC	, obs#:	250				
DXCT		17	101	-8975.65760	0.005	0.631	
				0.010	0.008	0.53	
DYCT		17	101	1292.35110	-0.002	-0.224	
				0.011	0.008	0.19	
DZCT		17	101	469.97640	0.006	0.853	
				0.011	0.008	0.71	
GROUP:	052011.ASC	, obs#:	251				
DXCT		TXPV	101	-1904.25800	-0.004	-0.632	
				0.009	0.006	0.49	
DYCT		TXPV	101	-3606.06200	0.002	0.275	
				0.010	0.007	0.23	
DZCT		TXPV	101	-6987.64990	-0.006	-0.869	
				0.010	0.007	0.72	
GROUP:	052011.ASC	, obs#:	252				
DXCT		17	102	-10750.39490	0.005	0.507	
				0.013	0.011	0.48	
DYCT		17	102	2359.14400	0.007	0.619	
				0.013	0.011	0.59	
DZCT		17	102	2040.65540	-0.008	-0.762	
				0.013	0.011	0.73	
GROUP:	052011.ASC	, obs#:	253				
DXCT		TXPV	102	-3678.99640	-0.002	-0.514	
				0.008	0.004	0.32	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DYCT		TXPV	102	-2539.25580	-0.003	-0.670	
				0.009	0.005	0.44	
DZCT		TXPV	102	-5416.99510	0.004	0.795	
				0.009	0.005	0.54	
GROUP: 052011.ASC	, obs#:	254					
DXCT		17	103	-9125.14320	0.011	1.092	
				0.012	0.010	1.10	
DYCT		17	103	2914.64980	-0.003	-0.342	
				0.012	0.010	0.34	
DZCT		17	103	3395.49380	0.003	0.304	
				0.012	0.010	0.30	
GROUP: 052011.ASC	, obs#:	255					
DXCT		TXPV	103	-2053.73840	-0.003	-1.073	
				0.006	0.003	0.56	
DYCT		TXPV	103	-1983.76430	0.001	0.334	
				0.007	0.003	0.22	
DZCT		TXPV	103	-4062.14060	-0.001	-0.344	
				0.007	0.003	0.22	
GROUP: 052011.ASC	, obs#:	256					
DXCT		17	104	-7496.56990	0.013	1.323	
				0.011	0.010	1.37	
DYCT		17	104	3246.99450	-0.017	-1.822	
				0.011	0.009	1.86	
DZCT		17	104	4347.09900	-0.005	-0.482	
				0.011	0.010	0.50	
GROUP: 052011.ASC	, obs#:	257					
DXCT		TXPV	104	-425.16450	-0.002	-1.165	
				0.004	0.002	0.52	
DYCT		TXPV	104	-1651.43640	0.004	1.693	
				0.005	0.002	1.15	
DZCT		TXPV	104	-3110.54460	0.000	0.248	
				0.004	0.002	0.12	
GROUP: 052011.ASC	, obs#:	258					
DXCT		17	105	-7793.17940	0.036	2.804	
				0.013	0.013	3.13	
DYCT		17	105	4715.95340	0.022	1.765	
				0.013	0.013	1.96	
DZCT		17	105	6960.22720	-0.024	-1.898	
				0.013	0.013	2.12	
GROUP: 052011.ASC	, obs#:	259					
DXCT		TXPV	105	-721.75180	-0.001	-3.459	
				0.002	0.000	0.97	
DYCT		TXPV	105	-182.43130	-0.002	-2.465	
				0.004	0.001	2.72	
DZCT		TXPV	105	-497.43660	0.001	2.768	
				0.002	0.000	1.09	
GROUP: 052011.ASC	, obs#:	260					
DXCT		17	106	-6524.40150	0.011	0.870	
				0.013	0.012	0.97	
DYCT		17	106	4883.79890	0.032	2.531	
				0.013	0.012	2.85	
DZCT		17	106	7525.03480	-0.018	-1.440	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
						0.013	0.012 1.61
GROUP:	052011.ASC	, obs#:	261				
DXCT		TXPV	106	547.00050	-0.000	-1.966	
				0.001	0.000	0.60	
DYCT		TXPV	106	-14.57720	-0.002	-2.963	
				0.003	0.001	3.40	
DZCT		TXPV	106	67.37730	0.001	2.809	
				0.002	0.000	1.88	
GROUP:	052011.ASC	, obs#:	262				
DXCT		17	107	-2083.95180	0.000	0.544	
				0.003	0.001	0.15	
DYCT		17	107	549.91710	0.002	3.731	
				0.003	0.001	1.11	
DZCT		17	107	566.35550	-0.002	-3.419	
				0.003	0.001	0.99	
GROUP:	052011.ASC	, obs#:	263				
DXCT		TXPV	107	4987.44580	-0.006	-0.607	
				0.011	0.011	0.67	
DYCT		TXPV	107	-4348.45020	-0.040	-3.593	
				0.012	0.011	4.16	
DZCT		TXPV	107	-6891.32100	0.036	3.264	
				0.012	0.011	3.74	
GROUP:	052011.ASC	, obs#:	264				
DXCT		17	108	4129.36270	-0.004	-1.570	
				0.007	0.002	0.58	
DYCT		17	108	-2745.37210	0.003	1.108	
				0.008	0.002	0.39	
DZCT		17	108	-4157.30570	0.004	1.844	
				0.007	0.002	0.68	
GROUP:	052011.ASC	, obs#:	265				
DXCT		TXPV	108	11200.71570	0.034	1.638	
				0.022	0.021	1.91	
DYCT		TXPV	108	-7643.76700	-0.012	-0.525	
				0.024	0.023	0.68	
DZCT		TXPV	108	-11614.90060	-0.039	-1.867	
				0.022	0.021	2.20	
GROUP:	052011.ASC	, obs#:	266				
DXCT		TXPV	17	7071.38990	0.001	0.075	
				0.013	0.013	0.08	
DYCT		TXPV	17	-4898.39290	-0.017	-1.302	
				0.013	0.013	1.46	
DZCT		TXPV	17	-7457.63390	-0.005	-0.364	
				0.013	0.013	0.41	
GROUP:	052011.ASC	, obs#:	267				
DXCT		17	95	1354.38830	0.000	0.307	
				0.002	0.000	0.04	
DYCT		17	95	-415.88220	0.000	1.495	
				0.002	0.000	0.24	
DZCT		17	95	-480.13980	0.000	1.327	
				0.002	0.000	0.20	
GROUP:	052011.ASC	, obs#:	268				
DXCT		TXPV	95	8425.78360	-0.004	-0.305	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD	STD RES PPM
				STD	DEV		
DYCT		TXPV	95		0.015	0.014	0.34
				-5314.26740		-0.024	-1.611
DZCT		TXPV	95		0.015	0.015	1.88
				-7937.75630		-0.022	-1.470
					0.015	0.015	1.71
GROUP: 052011.ASC	, obs#:	269					
DXCT		17	96		-560.45210	-0.000	-0.736
					0.002	0.000	0.10
DYCT		17	96		-508.90780	0.000	1.486
					0.002	0.000	0.30
DZCT		17	96		-1050.23660	0.000	0.725
					0.002	0.000	0.12
GROUP: 052011.ASC	, obs#:	270					
DXCT		TXPV	96		6510.92810	0.011	0.783
					0.014	0.013	0.88
DYCT		TXPV	96		-5407.29320	-0.024	-1.745
					0.014	0.014	1.98
DZCT		TXPV	96		-8507.86020	-0.015	-1.094
					0.014	0.014	1.23
GROUP: 052011.ASC	, obs#:	271					
DXCT		17	97		-64.39240	-0.000	-0.575
					0.003	0.001	0.12
DYCT		17	97		-1203.41160	-0.001	-1.199
					0.003	0.001	0.30
DZCT		17	97		-2212.43690	0.001	2.110
					0.003	0.001	0.47
GROUP: 052011.ASC	, obs#:	272					
DXCT		TXPV	97		7006.98990	0.008	0.553
					0.015	0.015	0.61
DYCT		TXPV	97		-6101.83860	0.017	1.104
					0.016	0.015	1.24
DZCT		TXPV	97		-9670.04360	-0.031	-2.054
					0.015	0.015	2.29
GROUP: 052011.ASC	, obs#:	273					
DXCT		17	98		-2662.09340	-0.000	-0.416
					0.003	0.001	0.12
DYCT		17	98		-417.16040	-0.002	-1.875
					0.004	0.001	0.63
DZCT		17	98		-1318.02570	0.002	2.247
					0.003	0.001	0.67
GROUP: 052011.ASC	, obs#:	274					
DXCT		TXPV	98		4409.29210	0.005	0.410
					0.013	0.012	0.45
DYCT		TXPV	98		-5315.59510	0.023	1.841
					0.013	0.013	2.08
DZCT		TXPV	98		-8775.63530	-0.027	-2.215
					0.013	0.012	2.41
GROUP: 052011.ASC	, obs#:	275					
DXCT		17	99		-5522.67970	-0.001	-0.380
					0.007	0.003	0.20
DYCT		17	99		-247.14230	-0.004	-1.388
					0.007	0.003	0.76

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		17	99	-1609.44550	0.002	0.605	
				0.007	0.003	0.33	
GROUP:	052011.ASC	, obs#:	276				
DXCT		TXPV	99	1548.70590	0.004	0.385	
				0.012	0.011	0.39	
DYCT		TXPV	99	-5145.57260	0.016	1.401	
				0.013	0.012	1.55	
DZCT		TXPV	99	-9067.07540	-0.007	-0.637	
				0.012	0.011	0.64	
GROUP:	052111.ASC	, obs#:	277				
DXCT		17	109	-16934.09320	0.007	0.246	
				0.029	0.028	0.28	
DYCT		17	109	-7271.14290	-0.013	-0.460	
				0.029	0.028	0.52	
DZCT		17	109	-16919.63100	-0.008	-0.294	
				0.029	0.028	0.33	
GROUP:	052111.ASC	, obs#:	278				
DXCT		13	109	319.55020	-0.000	0.000*	
				0.001	0.000	0.01	
DYCT		13	109	-166.69200	0.000	0.000*	
				0.001	0.000	0.03	
DZCT		13	109	-237.12020	0.000	0.000*	
				0.001	0.000	0.00	
GROUP:	052111.ASC	, obs#:	279				
DXCT		17	110	-18097.58420	-0.008	-0.318	
				0.027	0.026	0.35	
DYCT		17	110	-5259.34830	-0.028	-1.074	
				0.027	0.026	1.22	
DZCT		17	110	-13473.47850	-0.001	-0.020	
				0.027	0.026	0.02	
GROUP:	052111.ASC	, obs#:	280				
DXCT		13	110	-843.95620	0.000	0.318	
				0.004	0.001	0.06	
DYCT		13	110	1845.08660	0.001	1.073	
				0.005	0.001	0.22	
DZCT		13	110	3209.04010	-0.000	-0.003	
				0.004	0.001	0.00	
GROUP:	052111.ASC	, obs#:	281				
DXCT		17	111	-18362.58070	0.004	0.176	
				0.025	0.024	0.19	
DYCT		17	111	-4197.24580	0.003	0.121	
				0.025	0.024	0.13	
DZCT		17	111	-11580.46540	-0.002	-0.074	
				0.025	0.024	0.08	
GROUP:	052111.ASC	, obs#:	282				
DXCT		13	111	-1108.93970	-0.000	-0.176	
				0.007	0.002	0.05	
DYCT		13	111	2907.22130	-0.000	-0.121	
				0.007	0.002	0.04	
DZCT		13	111	5102.05180	0.000	0.075	
				0.007	0.002	0.02	
GROUP:	052111.ASC	, obs#:	283				

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DXCT		17	112	-15388.22190	0.005	-0.275	
				0.021	0.019	0.28	
DYCT		17	112	-3545.22940	-0.009	-0.449	
				0.021	0.019	0.47	
DZCT		17	112	-9745.26770	-0.002	-0.084	
				0.021	0.019	0.09	
GROUP: 052111.ASC	, obs#:	284					
DXCT		13	112	1865.40830	0.001	0.274	
				0.009	0.004	0.12	
DYCT		13	112	3559.22430	0.002	0.449	
				0.009	0.004	0.20	
DZCT		13	112	6937.24950	0.000	0.085	
				0.009	0.004	0.04	
GROUP: 052111.ASC	, obs#:	285					
DXCT		17	113	-12725.52840	0.005	0.371	
				0.017	0.014	0.34	
DYCT		17	113	-2808.83360	0.013	0.925	
				0.018	0.014	0.86	
DZCT		17	113	-7825.89210	0.011	0.785	
				0.018	0.014	0.73	
GROUP: 052111.ASC	, obs#:	286					
DXCT		13	113	4528.11580	-0.003	-0.369	
				0.012	0.007	0.24	
DYCT		13	113	4295.64990	-0.007	-0.932	
				0.012	0.007	0.60	
DZCT		13	113	8856.64370	-0.006	-0.796	
				0.012	0.007	0.52	
GROUP: 052111.ASC	, obs#:	287					
DXCT		17	114	-10673.95500	0.006	0.633	
				0.014	0.009	0.48	
DYCT		17	114	-1984.35790	-0.020	-2.156	
				0.014	0.009	1.63	
DZCT		17	114	-5878.93230	0.022	2.360	
				0.014	0.009	1.78	
GROUP: 052111.ASC	, obs#:	288					
DXCT		13	114	6579.69450	-0.007	-0.635	
				0.016	0.011	0.53	
DYCT		13	114	5120.06150	0.024	2.151	
				0.016	0.011	1.79	
DZCT		13	114	10803.63550	-0.027	-2.355	
				0.016	0.011	1.96	
GROUP: 052111.ASC	, obs#:	289					
DXCT		17	115	-9716.82630	0.002	0.313	
				0.011	0.006	0.17	
DYCT		17	115	-176.35910	-0.011	-1.886	
				0.012	0.006	1.06	
DZCT		17	115	-2367.09440	0.010	1.824	
				0.011	0.006	1.02	
GROUP: 052111.ASC	, obs#:	290					
DXCT		13	115	7536.81730	-0.005	-0.315	
				0.020	0.017	0.31	
DYCT		13	115	6928.06160	0.033	1.883	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DZCT		13	115		0.020	0.017	1.85
				14315.46620		-0.031	-1.821
				0.020		0.017	1.78
GROUP:	052111.ASC	, obs#:	291				
DXCT		17	116		-6320.56080	0.001	0.140
				0.009		0.004	0.07
DYCT		17	116		-1798.42290	-0.004	-1.106
				0.009		0.004	0.55
DZCT		17	116		-4614.40100	0.007	1.898
				0.009		0.004	0.91
GROUP:	052111.ASC	, obs#:	292				
DXCT		13	116		10933.07870	-0.003	-0.145
				0.020		0.017	0.15
DYCT		13	116		5306.01750	0.019	1.089
				0.020		0.018	1.12
DZCT		13	116		12068.15830	-0.033	-1.888
				0.020		0.017	1.92
GROUP:	052111.ASC	, obs#:	293				
DXCT		17	117		-3441.86600	0.002	0.407
				0.011		0.005	0.23
DYCT		17	117		-3994.05740	-0.005	-0.920
				0.011		0.005	0.52
DZCT		17	117		-8026.15350	0.008	1.496
				0.011		0.005	0.84
GROUP:	052111.ASC	, obs#:	294				
DXCT		13	117		13811.77920	-0.007	-0.407
				0.019		0.016	0.40
DYCT		13	117		3110.38660	0.015	0.922
				0.019		0.016	0.90
DZCT		13	117		8656.39790	-0.024	-1.497
				0.019		0.016	1.46
GROUP:	052111.ASC	, obs#:	295				
DXCT		17	118		160.56820	0.001	0.064
				0.017		0.011	0.05
DYCT		17	118		-7217.32400	0.024	1.799
				0.020		0.013	1.60
DZCT		17	118		-13173.79350	-0.027	-1.848
				0.021		0.014	1.77
GROUP:	052111.ASC	, obs#:	296				
DXCT		13	118		17414.20640	-0.001	-0.069
				0.020		0.015	0.06
DYCT		13	118		-112.81370	-0.022	-1.481
				0.021		0.015	1.26
DZCT		13	118		3508.67570	0.023	1.567
				0.021		0.015	1.31
GROUP:	052111.ASC	, obs#:	297				
DXCT		17	119		-7518.58690	0.010	0.609
				0.020		0.017	0.59
DYCT		17	119		-6744.31690	-0.012	-0.728
				0.020		0.017	0.71
DZCT		17	119		-13928.64540	0.013	0.777
				0.020		0.017	0.76

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
<hr/>							
GROUP:	052111.ASC	, obs#:	298				
DXCT		13	119	9735.06320	-0.004	-0.608	
				0.012	0.006	0.35	
DYCT		13	119	360.13060	0.004	0.726	
				0.012	0.006	0.41	
DZCT		13	119	2753.89120	-0.004	-0.775	
				0.012	0.006	0.44	
GROUP:	052111.ASC	, obs#:	299				
DXCT		17	13	-17253.63690	0.000	0.016	
				0.029	0.028	0.02	
DYCT		17	13	-7104.45750	-0.006	-0.228	
				0.029	0.028	0.26	
DZCT		17	13	-16682.52470	0.006	0.197	
				0.029	0.028	0.22	
GROUP:	052211.ASC	, obs#:	300				
DXCT		TXPV	100C	-16923.91400	-0.008	-0.338	
				0.024	0.024	0.38	
DYCT		TXPV	100C	-4440.48990	-0.007	-0.283	
				0.024	0.024	0.32	
DZCT		TXPV	100C	-11727.39820	-0.029	-1.227	
				0.024	0.024	1.39	
GROUP:	052211.ASC	, obs#:	301				
DXCT		TXVA	100C	10079.45990	-0.017	-0.390	
				0.043	0.042	0.44	
DYCT		TXVA	100C	-18177.60740	-0.069	-1.615	
				0.043	0.042	1.84	
DZCT		TXVA	100C	-30860.94360	0.015	0.352	
				0.043	0.042	0.40	
GROUP:	052211.ASC	, obs#:	302				
DXCT		TXPV	120	-16809.08250	0.003	0.141	
				0.024	0.024	0.16	
DYCT		TXPV	120	-4592.58170	0.030	1.215	
				0.025	0.025	1.44	
DZCT		TXPV	120	-11981.46690	-0.047	-1.903	
				0.025	0.025	2.21	
GROUP:	052211.ASC	, obs#:	303				
DXCT		100C	120	114.84300	-0.000	0.000*	
				0.001	0.000	0.09	
DYCT		100C	120	-152.05450	-0.000	0.000*	
				0.001	0.000	0.52	
DZCT		100C	120	-254.08630	0.000	0.000*	
				0.001	0.000	0.45	
GROUP:	052211.ASC	, obs#:	304				
DXCT		100C	121	4025.59560	-0.001	-0.326	
				0.010	0.002	0.07	
DYCT		100C	121	-3909.10240	0.001	0.287	
				0.010	0.002	0.06	
DZCT		100C	121	-6289.33340	-0.000	-0.051	
				0.010	0.002	0.01	
GROUP:	052211.ASC	, obs#:	305				
DXCT		TXVA	121	14105.02170	0.017	0.327	
				0.052	0.051	0.37	

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Residuals (critical value = 4.174):

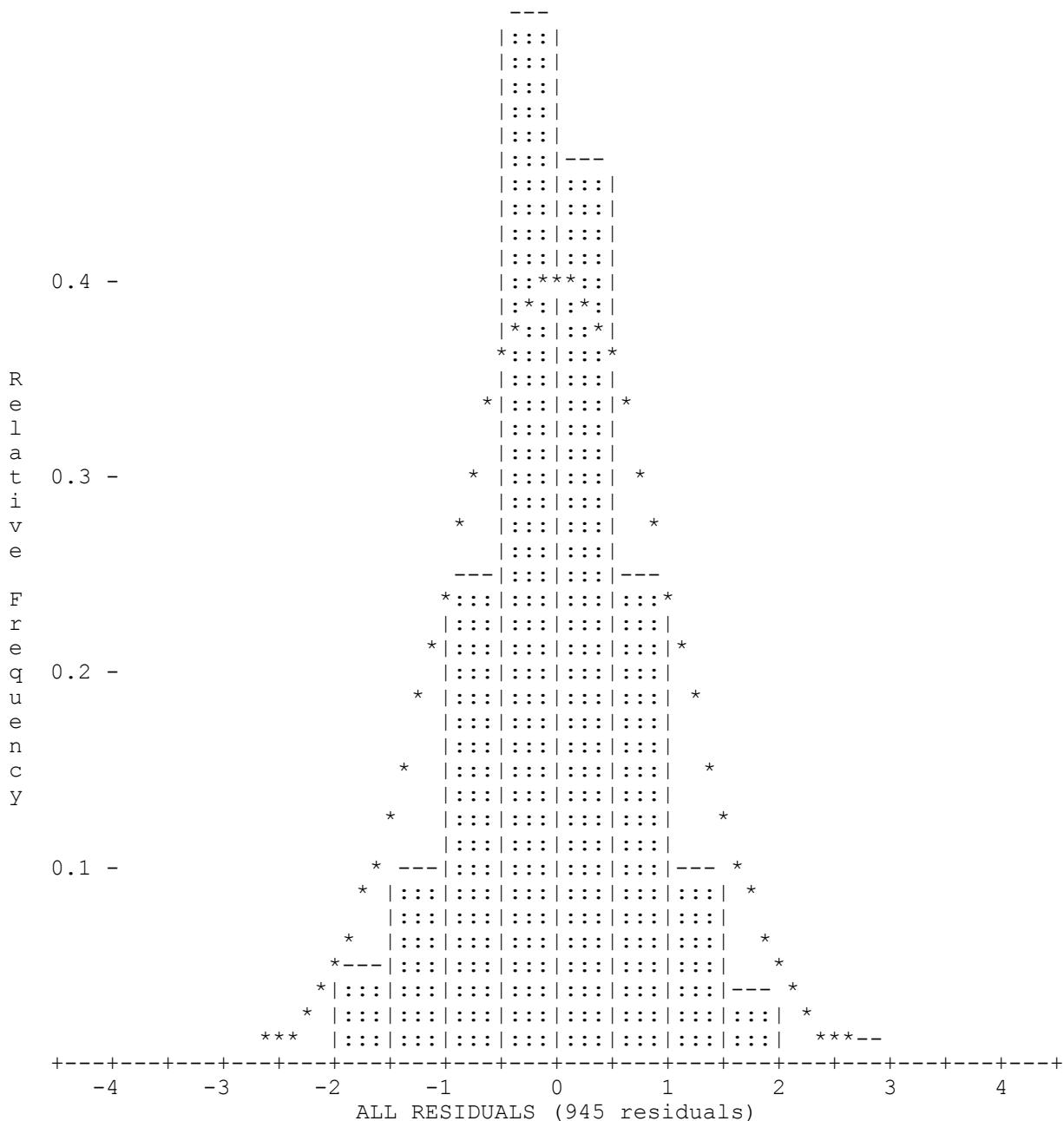
TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
DYCT		TXVA	121	-22086.76310	0.015	-0.288	
				0.052	0.051	0.32	
DZCT		TXVA	121	-37150.26460	0.002	0.048	
				0.052	0.051	0.05	
GROUP: 052211.ASC	, obs#:	306					
DXCT		100C	122	1691.48390	0.000	0.146	
				0.004	0.000	0.02	
DYCT		100C	122	-1661.25760	0.001	1.675	
				0.005	0.000	0.23	
DZCT		100C	122	-2673.72960	-0.000	-0.398	
				0.004	0.000	0.04	
GROUP: 052211.ASC	, obs#:	307					
DXCT		TXVA	122	11770.93400	-0.007	-0.144	
				0.047	0.046	0.16	
DYCT		TXVA	122	-19838.85440	-0.078	-1.664	
				0.047	0.047	1.93	
DZCT		TXVA	122	-33534.67190	0.013	0.291	
				0.047	0.046	0.33	
GROUP: 052211.ASC	, obs#:	308					
DXCT		100C	123	800.06220	0.000	0.482	
				0.004	0.000	0.06	
DYCT		100C	123	1445.99620	0.002	3.083	
				0.005	0.001	0.48	
DZCT		100C	123	2814.89360	-0.000	-1.244	
				0.004	0.000	0.15	
GROUP: 052211.ASC	, obs#:	309					
DXCT		TXVA	123	10879.52500	-0.019	-0.491	
				0.040	0.039	0.56	
DYCT		TXVA	123	-16731.55370	-0.125	-3.024	
				0.042	0.041	3.62	
DZCT		TXVA	123	-28046.07150	0.036	0.914	
				0.040	0.039	1.04	
GROUP: 052211.ASC	, obs#:	310					
DXCT		100C	124	-3912.92970	0.001	0.298	
				0.009	0.002	0.09	
DYCT		100C	124	3727.01770	0.002	0.797	
				0.009	0.002	0.24	
DZCT		100C	124	5956.63230	-0.001	-0.212	
				0.009	0.002	0.07	
GROUP: 052211.ASC	, obs#:	311					
DXCT		TXVA	124	6166.52400	-0.010	-0.297	
				0.034	0.032	0.33	
DYCT		TXVA	124	-14450.63050	-0.026	-0.794	
				0.034	0.033	0.88	
DZCT		TXVA	124	-24904.30350	0.007	0.204	
				0.034	0.033	0.22	
GROUP: 052211.ASC	, obs#:	312					
DXCT		100C	125	-7777.61060	0.010	1.222	
				0.016	0.008	0.71	
DYCT		100C	125	6448.97610	0.007	0.808	
				0.016	0.008	0.47	
DZCT		100C	125	10073.87030	0.001	0.167	

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Residuals (critical value = 4.174):

TYPE	AT	FROM	TO	OBSERVATION		RESIDUAL STD DEV	STD RES PPM
				STD	DEV		
						0.016	0.008
GROUP:	052211.ASC	, obs#:	313				0.10
DXCT		TXVA	125	2301.87170	-0.029	-1.224	
				0.027	0.024	1.20	
DYCT		TXVA	125	-11728.67390	-0.019	-0.809	
				0.028	0.024	0.80	
DZCT		TXVA	125	-20787.05320	-0.004	-0.158	
				0.028	0.024	0.16	
GROUP:	052211.ASC	, obs#:	314				
DXCT		100C	126	2346.29290	0.000	0.381	
				0.004	0.000	0.04	
DYCT		100C	126	1058.59460	0.000	0.929	
				0.004	0.000	0.12	
DZCT		100C	126	2442.81010	-0.000	-0.248	
				0.004	0.000	0.03	
GROUP:	052211.ASC	, obs#:	315				
DXCT		TXVA	126	12425.75100	-0.015	-0.362	
				0.041	0.040	0.41	
DYCT		TXVA	126	-17119.04360	-0.037	-0.917	
				0.041	0.041	1.05	
DZCT		TXVA	126	-28418.12740	0.009	0.217	
				0.041	0.040	0.25	

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S T A T I S T I C S S U M M A R Y

Residual Critical Value	Type	Tau Max
Residual Critical Value		4.1745
Number of Flagged Residuals		1
Convergence Criterion		0.0010
Final Iteration Counter Value		2
Confidence Level Used		95.0000
Estimated Variance Factor		1.0000
Number of Degrees of Freedom		557

Chi-Square Test on the Variance Factor:

8.9222e-01 < 1.0000 < 1.1287e+00 ?

THE TEST PASSES

|-----|
NOTE: All confidence regions were computed using the following factors:

Variance factor used	=	1.0000
3-D expansion factor	=	2.7955

| Note that, for relative confidence regions, precisions are
| computed from the ratio of the major semi-axis and the spatial
distance between the two stations.

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3D Station Confidence Regions (95.000 percent):

STATION	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)
1	0.040 (0, 90)	0.039 (0, 0)	0.039 (90, 0)
10	0.052 (0, 90)	0.052 (90, 0)	0.052 (0, 0)
100	0.021 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
100C	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)
101	0.021 (0, 77)	0.020 (180, 13)	0.020 (90, 0)
102	0.021 (0, 70)	0.020 (180, 20)	0.019 (90, 0)
103	0.017 (0, 79)	0.015 (180, 11)	0.015 (90, 0)
104	0.014 (180, 77)	0.011 (0, 13)	0.011 (90, 0)
105	0.010 (180, 78)	0.005 (0, 12)	0.005 (90, 0)
106	0.009 (0, 90)	0.004 (90, 0)	0.004 (0, 0)
107	0.011 (0, 90)	0.010 (0, 0)	0.010 (90, 0)
108	0.021 (0, 90)	0.021 (90, 0)	0.021 (0, 0)
109	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)
11	0.044 (347, 68)	0.042 (180, 21)	0.042 (88, 4)
110	0.017 (0, 90)	0.017 (0, 0)	0.017 (90, 0)
111	0.022 (0, 90)	0.022 (0, 0)	0.022 (90, 0)
112	0.026 (0, 90)	0.026 (0, 0)	0.026 (90, 0)
113	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)
114	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)
115	0.029 (0, 90)	0.029 (0, 0)	0.029 (90, 0)
116	0.025 (0, 90)	0.024 (0, 0)	0.024 (90, 0)
117	0.028 (0, 90)	0.027 (0, 0)	0.027 (90, 0)
118	0.044 (13, 67)	0.037 (272, 5)	0.037 (180, 22)
119	0.030 (0, 90)	0.029 (90, 0)	0.029 (0, 0)
12	0.039 (0, 90)	0.038 (0, 0)	0.038 (90, 0)
120	0.010 (0, 90)	0.009 (0, 0)	0.009 (90, 0)
121	0.028 (0, 90)	0.028 (0, 0)	0.028 (90, 0)
122	0.016 (180, 73)	0.015 (90, 0)	0.014 (0, 17)
123	0.016 (135, 78)	0.014 (269, 8)	0.014 (0, 8)
124	0.027 (0, 90)	0.026 (0, 0)	0.026 (90, 0)
125	0.040 (0, 90)	0.040 (0, 0)	0.040 (90, 0)
126	0.015 (0, 90)	0.014 (0, 0)	0.014 (90, 0)
13	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)
14	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)
15	0.031 (0, 90)	0.031 (0, 0)	0.031 (90, 0)
16	0.028 (0, 90)	0.028 (0, 0)	0.028 (90, 0)
17	0.007 (0, 90)	0.007 (0, 0)	0.007 (90, 0)
18	0.038 (344, 67)	0.037 (180, 23)	0.037 (88, 6)
19	0.029 (0, 90)	0.028 (0, 0)	0.028 (90, 0)
2	0.037 (0, 90)	0.037 (0, 0)	0.037 (90, 0)
20	0.019 (180, 79)	0.018 (90, 0)	0.018 (0, 11)
21	0.003 (0, 90)	0.001 (0, 0)	0.001 (90, 0)
22	0.010 (0, 90)	0.010 (90, 0)	0.010 (0, 0)
23	0.018 (0, 90)	0.015 (0, 0)	0.015 (90, 0)
24	0.048 (0, 90)	0.048 (0, 0)	0.048 (90, 0)
25	0.046 (180, 74)	0.045 (90, 0)	0.045 (0, 16)
26	0.034 (0, 90)	0.034 (90, 0)	0.034 (0, 0)
27	0.041 (336, 70)	0.041 (180, 19)	0.041 (87, 8)
28	0.038 (0, 90)	0.038 (0, 0)	0.038 (90, 0)
29	0.037 (180, 81)	0.036 (90, 0)	0.036 (0, 9)
3	0.030 (0, 68)	0.030 (180, 22)	0.030 (90, 0)
30	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)
31	0.056 (0, 90)	0.055 (0, 0)	0.055 (90, 0)

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3D Station Confidence Regions (95.000 percent):

STATION	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)
32	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)
33	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)
34	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
35	0.019 (0, 90)	0.018 (90, 0)	0.018 (0, 0)
36	0.031 (0, 72)	0.031 (180, 18)	0.031 (90, 0)
37	0.013 (0, 90)	0.013 (0, 0)	0.013 (90, 0)
38	0.019 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
39	0.016 (0, 90)	0.015 (0, 0)	0.015 (90, 0)
4	0.025 (0, 79)	0.023 (158, 10)	0.022 (249, 4)
40	0.021 (0, 90)	0.021 (90, 0)	0.021 (0, 0)
41	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)
42	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
43	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)
44	0.023 (0, 90)	0.023 (0, 0)	0.023 (90, 0)
45	0.029 (0, 90)	0.028 (90, 0)	0.028 (0, 0)
46	0.037 (0, 74)	0.036 (180, 16)	0.036 (90, 0)
47	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)
48	0.020 (0, 90)	0.020 (0, 0)	0.020 (90, 0)
49	0.015 (0, 90)	0.014 (0, 0)	0.014 (90, 0)
5	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)
50	0.022 (0, 90)	0.022 (0, 0)	0.022 (90, 0)
51	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
52	0.021 (0, 90)	0.021 (0, 0)	0.021 (90, 0)
53	0.024 (0, 69)	0.024 (180, 21)	0.023 (90, 0)
54	0.023 (0, 90)	0.023 (0, 0)	0.023 (90, 0)
55	0.026 (0, 90)	0.026 (0, 0)	0.026 (90, 0)
56	0.028 (0, 90)	0.027 (0, 0)	0.027 (90, 0)
57	0.031 (0, 90)	0.031 (0, 0)	0.031 (90, 0)
58	0.031 (0, 90)	0.031 (0, 0)	0.031 (90, 0)
59	0.021 (0, 90)	0.020 (0, 0)	0.020 (90, 0)
6	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)
60	0.018 (0, 90)	0.017 (0, 0)	0.017 (90, 0)
61	0.027 (0, 90)	0.027 (0, 0)	0.027 (90, 0)
62	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)
63	0.019 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
64	0.019 (0, 90)	0.019 (0, 0)	0.019 (90, 0)
65	0.043 (0, 90)	0.043 (0, 0)	0.043 (90, 0)
66	0.035 (0, 90)	0.035 (0, 0)	0.035 (90, 0)
67	0.029 (0, 90)	0.029 (0, 0)	0.029 (90, 0)
68	0.027 (0, 74)	0.026 (180, 16)	0.026 (90, 0)
69	0.042 (180, 80)	0.042 (0, 10)	0.042 (90, 0)
7	0.061 (270, 81)	0.061 (90, 9)	0.061 (0, 0)
70	0.043 (0, 90)	0.042 (0, 0)	0.042 (90, 0)
71	0.040 (0, 90)	0.040 (0, 0)	0.040 (90, 0)
72	0.043 (0, 78)	0.043 (180, 12)	0.043 (90, 0)
73	0.040 (0, 90)	0.039 (0, 0)	0.039 (90, 0)
74	0.049 (0, 90)	0.049 (0, 0)	0.049 (90, 0)
75	0.051 (0, 90)	0.051 (0, 0)	0.051 (90, 0)
76	0.007 (0, 90)	0.006 (0, 0)	0.006 (90, 0)
77	0.012 (180, 78)	0.010 (0, 12)	0.010 (90, 0)
78	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)
79	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)
8	0.059 (0, 90)	0.059 (0, 0)	0.059 (90, 0)

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3D Station Confidence Regions (95.000 percent):

STATION	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)
80	0.032 (0, 90)	0.031 (0, 0)	0.031 (90, 0)
81	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)
82	0.034 (0, 90)	0.033 (0, 0)	0.033 (90, 0)
83	0.046 (180, 74)	0.045 (0, 16)	0.045 (90, 0)
84	0.039 (0, 90)	0.039 (0, 0)	0.039 (90, 0)
85	0.035 (0, 90)	0.035 (0, 0)	0.035 (90, 0)
86	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)
87	0.020 (0, 90)	0.019 (90, 0)	0.019 (0, 0)
88	0.021 (0, 90)	0.019 (90, 0)	0.019 (0, 0)
89	0.021 (0, 90)	0.020 (0, 0)	0.020 (90, 0)
9	0.055 (180, 79)	0.054 (0, 11)	0.054 (90, 0)
90	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)
91	0.024 (0, 90)	0.023 (90, 0)	0.023 (0, 0)
92	0.026 (0, 90)	0.025 (90, 0)	0.025 (0, 0)
93	0.025 (0, 90)	0.024 (0, 0)	0.024 (90, 0)
94	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)
95	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)
96	0.009 (0, 90)	0.008 (0, 0)	0.008 (90, 0)
97	0.011 (0, 90)	0.011 (0, 0)	0.011 (90, 0)
98	0.012 (0, 90)	0.012 (0, 0)	0.011 (90, 0)
99	0.018 (180, 76)	0.017 (90, 0)	0.017 (0, 14)
A 1257	0.033 (0, 0)	0.033 (90, 0)	0.000 (0, 90)
B 595	0.037 (0, 90)	0.037 (0, 0)	0.037 (90, 0)
E 1258	0.036 (0, 0)	0.036 (90, 0)	0.000 (0, 90)

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
1	100C	0.039 (0, 90)	0.039 (90, 0)	0.039 (0, 0)	13630.877	2.86
1	LAVAPORT	0.040 (0, 90)	0.039 (0, 0)	0.039 (90, 0)	26460.294	1.50
10	100C	0.052 (0, 90)	0.052 (90, 0)	0.052 (0, 0)	25727.735	2.04
10	LAVAPORT	0.052 (0, 90)	0.052 (90, 0)	0.052 (0, 0)	32726.449	1.60
10	TXPV	0.052 (0, 90)	0.052 (90, 0)	0.052 (0, 0)	29842.860	1.75
10	TXVA	0.052 (0, 90)	0.052 (90, 0)	0.052 (0, 0)	60616.084	0.86
100	17	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	7759.195	2.61
100	TXPV	0.021 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	8894.814	2.31
100C	11	0.044 (347, 68)	0.042 (180, 21)	0.042 (88, 4)	20287.492	2.15
100C	12	0.038 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	16255.212	2.37
100C	120	0.005 (0, 90)	0.002 (0, 0)	0.002 (90, 0)	317.599	14.50
100C	121	0.027 (0, 90)	0.027 (0, 0)	0.027 (90, 0)	8428.654	3.22
100C	122	0.014 (180, 73)	0.012 (90, 0)	0.012 (0, 17)	3573.475	3.78
100C	123	0.013 (135, 78)	0.011 (269, 8)	0.011 (0, 9)	3264.143	4.00
100C	124	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	8042.584	3.15
100C	125	0.040 (0, 90)	0.039 (0, 0)	0.039 (90, 0)	14267.562	2.78
100C	126	0.012 (0, 90)	0.012 (0, 0)	0.011 (90, 0)	3548.667	3.47
100C	13	0.011 (0, 90)	0.010 (0, 0)	0.010 (90, 0)	16022.347	0.66
100C	14	0.022 (0, 90)	0.022 (0, 0)	0.021 (90, 0)	7693.982	2.83
100C	15	0.031 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	29538.837	1.04
100C	16	0.027 (0, 90)	0.027 (0, 0)	0.027 (90, 0)	8774.474	3.05
100C	17	0.011 (0, 90)	0.011 (0, 0)	0.011 (90, 0)	24376.543	0.44
100C	18	0.039 (344, 67)	0.037 (180, 22)	0.037 (88, 6)	22261.133	1.74
100C	19	0.029 (0, 90)	0.029 (0, 0)	0.029 (90, 0)	15815.540	1.86
100C	2	0.036 (0, 90)	0.036 (0, 0)	0.036 (90, 0)	12475.163	2.90
100C	20	0.021 (180, 79)	0.019 (0, 11)	0.019 (90, 0)	16443.654	1.25

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
100C	21	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	17957.817	0.52
100C	3	0.029 (0, 67)	0.029 (180, 23)	0.029 (90, 0)	9645.447	3.02
100C	4	0.024 (0, 79)	0.021 (158, 10)	0.021 (248, 4)	6645.825	3.57
100C	40	0.019 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	6182.100	3.14
100C	41	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	2700.244	3.28
100C	42	0.018 (0, 90)	0.018 (0, 0)	0.018 (90, 0)	6402.800	2.88
100C	43	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	3821.260	3.26
100C	44	0.022 (0, 90)	0.022 (0, 0)	0.021 (90, 0)	7313.908	3.00
100C	45	0.028 (0, 90)	0.027 (90, 0)	0.027 (0, 0)	9830.143	2.83
100C	46	0.037 (0, 74)	0.036 (180, 16)	0.036 (90, 0)	13885.273	2.66
100C	47	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	15073.381	1.66
100C	48	0.021 (0, 90)	0.020 (0, 0)	0.020 (90, 0)	11378.462	1.83
100C	49	0.017 (0, 90)	0.017 (0, 0)	0.016 (90, 0)	15083.889	1.13
100C	5	0.013 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	3882.289	3.28
100C	50	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	8696.521	2.48
100C	51	0.018 (0, 90)	0.018 (0, 0)	0.018 (90, 0)	10338.335	1.78
100C	52	0.020 (0, 90)	0.020 (0, 0)	0.020 (90, 0)	10479.695	1.90
100C	53	0.023 (0, 68)	0.022 (180, 22)	0.022 (90, 0)	11151.776	2.06
100C	54	0.021 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	7623.763	2.81
100C	55	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	9999.541	2.47
100C	56	0.027 (0, 90)	0.026 (0, 0)	0.026 (90, 0)	12205.344	2.19
100C	57	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	13145.094	2.29
100C	58	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	13671.669	2.18
100C	59	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	12848.567	1.53
100C	6	0.003 (0, 90)	0.001 (0, 0)	0.001 (90, 0)	11.622	245.91
100C	60	0.017 (0, 90)	0.016 (0, 0)	0.016 (90, 0)	14692.494	1.15

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
100C	61	0.026 (0, 90)	0.026 (0, 0)	0.026 (90, 0)	8952.167	2.92
100C	62	0.021 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	6953.440	3.01
100C	63	0.017 (0, 90)	0.017 (0, 0)	0.016 (90, 0)	5527.284	3.07
100C	7	0.062 (270, 81)	0.061 (90, 9)	0.061 (0, 0)	38282.610	1.61
100C	8	0.060 (0, 90)	0.059 (0, 0)	0.059 (90, 0)	37693.540	1.58
100C	9	0.055 (180, 79)	0.055 (0, 11)	0.055 (90, 0)	32758.339	1.69
100C	A 1257	0.033 (0, 0)	0.033 (90, 0)	0.009 (0, 90)	17874.201	1.86
100C	B 595	0.036 (0, 90)	0.036 (0, 0)	0.036 (90, 0)	13297.267	2.71
100C	E 1258	0.037 (0, 0)	0.037 (90, 0)	0.009 (0, 90)	18276.856	2.01
100C	LAVAPORT	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	18045.476	0.49
100C	TXPV	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	21063.469	0.42
100C	TXVA	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	37207.795	0.24
101	17	0.021 (0, 77)	0.020 (180, 13)	0.020 (90, 0)	9080.385	2.32
101	TXPV	0.021 (0, 77)	0.020 (180, 13)	0.020 (90, 0)	8090.563	2.60
102	17	0.021 (0, 70)	0.020 (180, 20)	0.020 (90, 0)	11193.780	1.90
102	TXPV	0.021 (0, 70)	0.020 (180, 20)	0.019 (90, 0)	7023.294	2.97
103	17	0.018 (0, 80)	0.016 (180, 10)	0.016 (90, 0)	10163.297	1.76
103	TXPV	0.017 (0, 79)	0.015 (180, 11)	0.015 (90, 0)	4965.296	3.45
104	17	0.015 (180, 77)	0.013 (0, 13)	0.013 (90, 0)	9254.105	1.62
104	TXPV	0.014 (180, 77)	0.011 (0, 13)	0.011 (90, 0)	3547.320	3.93
105	17	0.012 (180, 78)	0.008 (0, 12)	0.008 (90, 0)	11463.766	1.08
105	TXPV	0.010 (180, 78)	0.005 (0, 12)	0.005 (90, 0)	895.350	11.54
106	17	0.011 (0, 90)	0.008 (90, 0)	0.008 (0, 0)	11092.581	1.00
106	TXPV	0.009 (0, 90)	0.004 (90, 0)	0.004 (0, 0)	551.327	15.57
107	17	0.008 (0, 90)	0.007 (0, 0)	0.007 (90, 0)	2228.457	3.64
107	TXPV	0.011 (0, 90)	0.010 (0, 0)	0.010 (90, 0)	9553.729	1.12

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
108	17	0.020 (0, 90)	0.020 (90, 0)	0.020 (0, 0)	6470.843	3.15
108	TXPV	0.021 (0, 90)	0.021 (90, 0)	0.021 (0, 0)	17854.719	1.20
109	13	0.003 (0, 90)	0.002 (0, 0)	0.002 (90, 0)	431.422	6.14
109	17	0.013 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	25018.137	0.51
11	LAVAPORT	0.044 (347, 68)	0.042 (180, 21)	0.042 (88, 4)	26755.401	1.63
11	TXPV	0.044 (347, 68)	0.042 (180, 21)	0.042 (88, 4)	24234.511	1.80
11	TXVA	0.044 (347, 68)	0.042 (180, 21)	0.042 (88, 4)	54554.075	0.80
110	13	0.013 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	3796.650	3.38
110	17	0.018 (0, 90)	0.017 (0, 0)	0.017 (90, 0)	23167.186	0.76
111	13	0.019 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	5976.003	3.14
111	17	0.022 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	22111.270	1.00
112	13	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	8017.062	2.97
112	17	0.026 (0, 90)	0.026 (0, 0)	0.026 (90, 0)	18556.307	1.40
113	13	0.029 (0, 90)	0.029 (0, 0)	0.029 (90, 0)	10834.962	2.66
113	17	0.030 (0, 90)	0.030 (0, 0)	0.029 (90, 0)	15201.080	1.96
114	13	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	13646.447	2.22
114	17	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	12346.357	2.43
115	13	0.030 (0, 90)	0.029 (0, 0)	0.029 (90, 0)	17599.253	1.69
115	17	0.028 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	10002.543	2.83
116	13	0.026 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	17126.758	1.52
116	17	0.024 (0, 90)	0.023 (0, 0)	0.023 (90, 0)	8029.723	3.00
117	13	0.028 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	16594.350	1.71
117	17	0.027 (0, 90)	0.027 (0, 0)	0.027 (90, 0)	9603.019	2.82
118	13	0.044 (13, 67)	0.037 (272, 5)	0.037 (180, 22)	17764.522	2.48
118	17	0.044 (13, 67)	0.037 (272, 5)	0.037 (180, 22)	15022.142	2.94
119	13	0.028 (0, 90)	0.028 (90, 0)	0.028 (0, 0)	10123.486	2.80

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
119	17	0.030 (0, 90)	0.029 (90, 0)	0.029 (0, 0)	17205.283	1.72
12	LAVAPORT	0.039 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	26338.837	1.46
12	TXPV	0.039 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	25130.823	1.53
12	TXVA	0.039 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	52241.594	0.74
120	TXPV	0.010 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	21146.946	0.47
121	TXVA	0.028 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	45463.390	0.63
122	TXVA	0.016 (180, 73)	0.015 (90, 0)	0.014 (0, 17)	40702.719	0.40
123	TXVA	0.016 (135, 78)	0.014 (269, 8)	0.014 (0, 8)	34422.272	0.46
124	TXVA	0.027 (0, 90)	0.026 (0, 0)	0.026 (90, 0)	29446.076	0.91
125	TXVA	0.040 (0, 90)	0.040 (0, 0)	0.040 (90, 0)	23978.375	1.68
126	TXVA	0.015 (0, 90)	0.014 (0, 0)	0.014 (90, 0)	35426.704	0.43
13	17	0.013 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	25029.339	0.50
13	51	0.017 (0, 90)	0.016 (0, 0)	0.016 (90, 0)	5765.993	2.91
13	52	0.019 (0, 90)	0.018 (0, 0)	0.018 (90, 0)	6744.537	2.77
13	53	0.022 (0, 68)	0.022 (180, 22)	0.022 (90, 0)	8372.684	2.66
13	54	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	12817.753	1.76
13	55	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	11451.674	2.19
13	56	0.026 (0, 90)	0.026 (0, 0)	0.026 (90, 0)	10723.741	2.47
13	57	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	12945.897	2.33
13	58	0.030 (0, 90)	0.030 (0, 0)	0.030 (90, 0)	12221.643	2.43
13	59	0.018 (0, 90)	0.017 (0, 0)	0.017 (90, 0)	5875.766	3.03
13	60	0.014 (0, 90)	0.013 (0, 0)	0.013 (90, 0)	4281.733	3.24
13	61	0.027 (0, 90)	0.027 (0, 0)	0.027 (90, 0)	18648.358	1.47
13	62	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	16043.662	1.41
13	63	0.019 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	13705.875	1.40
13	69	0.041 (180, 80)	0.040 (0, 10)	0.040 (90, 0)	19159.291	2.14

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
13	70	0.042 (0, 90)	0.041 (0, 0)	0.041 (90, 0)	20931.910	1.99
13	71	0.039 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	20449.495	1.89
13	72	0.042 (0, 78)	0.041 (180, 12)	0.041 (90, 0)	25620.204	1.63
13	73	0.038 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	24664.528	1.55
13	74	0.048 (0, 90)	0.048 (0, 0)	0.048 (90, 0)	31061.470	1.56
13	75	0.050 (0, 90)	0.050 (0, 0)	0.050 (90, 0)	31929.937	1.56
13	B 595	0.037 (0, 90)	0.036 (0, 0)	0.036 (90, 0)	20571.605	1.78
13	LAVAPORT	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	29176.452	0.41
13	TXPV	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	28818.298	0.41
13	TXVA	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	53085.873	0.22
14	LAVAPORT	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	19539.045	1.16
14	TXPV	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	20170.714	1.13
14	TXVA	0.023 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	43561.409	0.52
15	69	0.037 (0, 90)	0.037 (0, 0)	0.037 (90, 0)	13447.401	2.75
15	70	0.036 (0, 90)	0.036 (0, 0)	0.036 (90, 0)	12922.365	2.82
15	71	0.032 (0, 90)	0.032 (0, 0)	0.032 (90, 0)	10943.941	2.90
15	72	0.034 (0, 74)	0.034 (180, 16)	0.034 (90, 0)	11389.417	3.00
15	73	0.029 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	9421.202	3.03
15	74	0.042 (0, 90)	0.042 (0, 0)	0.042 (90, 0)	14283.490	2.95
15	75	0.044 (0, 90)	0.044 (0, 0)	0.044 (90, 0)	14985.424	2.92
15	LAVAPORT	0.031 (0, 90)	0.031 (0, 0)	0.031 (90, 0)	45729.337	0.68
15	TXPV	0.031 (0, 90)	0.031 (0, 0)	0.031 (90, 0)	46053.792	0.68
15	TXVA	0.031 (0, 90)	0.031 (0, 0)	0.031 (90, 0)	65747.704	0.47
16	LAVAPORT	0.028 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	26205.001	1.07
17	22	0.013 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	20019.386	0.63
17	23	0.019 (0, 90)	0.017 (0, 0)	0.017 (90, 0)	18866.571	1.03

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
17	24	0.048 (0, 90)	0.047 (0, 0)	0.047 (90, 0)	18134.102	2.63
17	25	0.046 (180, 74)	0.045 (90, 0)	0.045 (0, 16)	16649.581	2.76
17	26	0.034 (0, 90)	0.033 (90, 0)	0.033 (0, 0)	11732.649	2.86
17	27	0.041 (336, 69)	0.040 (180, 19)	0.040 (87, 8)	15178.791	2.71
17	28	0.038 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	14926.472	2.55
17	29	0.036 (180, 81)	0.036 (90, 0)	0.036 (0, 9)	14847.667	2.45
17	30	0.025 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	9514.157	2.62
17	31	0.056 (0, 90)	0.055 (0, 0)	0.055 (90, 0)	20503.939	2.71
17	32	0.023 (0, 90)	0.023 (0, 0)	0.023 (90, 0)	7518.404	3.09
17	33	0.013 (0, 90)	0.013 (0, 0)	0.013 (90, 0)	4060.776	3.25
17	34	0.020 (0, 90)	0.020 (0, 0)	0.020 (90, 0)	10372.574	1.95
17	35	0.020 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	11182.256	1.76
17	36	0.032 (0, 72)	0.031 (180, 18)	0.031 (90, 0)	13969.095	2.26
17	37	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)	15008.527	0.99
17	38	0.020 (0, 90)	0.020 (0, 0)	0.020 (90, 0)	21200.784	0.96
17	39	0.017 (0, 90)	0.017 (0, 0)	0.017 (90, 0)	17180.848	1.01
17	64	0.018 (0, 90)	0.018 (0, 0)	0.018 (90, 0)	6016.906	3.03
17	65	0.043 (0, 90)	0.043 (0, 0)	0.043 (90, 0)	14990.602	2.86
17	66	0.035 (0, 90)	0.034 (0, 0)	0.034 (90, 0)	11837.606	2.92
17	67	0.029 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	9625.995	2.96
17	68	0.026 (0, 73)	0.025 (180, 17)	0.025 (90, 0)	8586.531	3.02
17	95	0.006 (0, 90)	0.005 (0, 0)	0.005 (90, 0)	1495.948	3.75
17	96	0.006 (0, 90)	0.004 (0, 0)	0.004 (90, 0)	1294.639	4.36
17	97	0.009 (0, 90)	0.008 (0, 0)	0.008 (90, 0)	2519.369	3.50
17	98	0.010 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	2999.659	3.37
17	99	0.017 (180, 76)	0.016 (90, 0)	0.016 (0, 14)	5757.725	3.01

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
17	LAVAPORT	0.007 (0, 90)	0.007 (0, 0)	0.007 (90, 0)	17070.743	0.43
17	TXPV	0.007 (0, 90)	0.007 (0, 0)	0.007 (90, 0)	11384.874	0.65
17	TXVA	0.007 (0, 90)	0.007 (0, 0)	0.007 (90, 0)	47068.704	0.16
18	LAVAPORT	0.038 (344, 67)	0.037 (180, 23)	0.037 (88, 6)	13368.319	2.87
19	LAVAPORT	0.029 (0, 90)	0.028 (0, 0)	0.028 (90, 0)	10592.329	2.72
2	LAVAPORT	0.037 (0, 90)	0.037 (0, 0)	0.037 (90, 0)	25847.426	1.42
20	LAVAPORT	0.019 (180, 79)	0.018 (90, 0)	0.018 (0, 11)	5842.903	3.25
21	LAVAPORT	0.003 (0, 90)	0.001 (0, 0)	0.001 (90, 0)	146.314	20.32
22	LAVAPORT	0.010 (0, 90)	0.010 (90, 0)	0.010 (0, 0)	2978.193	3.52
23	LAVAPORT	0.018 (0, 90)	0.015 (0, 0)	0.015 (90, 0)	4938.617	3.70
24	LAVAPORT	0.048 (0, 90)	0.048 (0, 0)	0.048 (90, 0)	25500.898	1.88
25	LAVAPORT	0.046 (180, 74)	0.045 (90, 0)	0.045 (0, 16)	26330.965	1.75
26	LAVAPORT	0.034 (0, 90)	0.034 (90, 0)	0.034 (0, 0)	22124.346	1.54
27	LAVAPORT	0.041 (336, 70)	0.041 (180, 19)	0.041 (87, 8)	22557.912	1.83
28	LAVAPORT	0.038 (0, 90)	0.038 (0, 0)	0.038 (90, 0)	19396.489	1.97
29	LAVAPORT	0.037 (180, 81)	0.036 (90, 0)	0.036 (0, 9)	16706.622	2.19
3	LAVAPORT	0.030 (0, 68)	0.030 (180, 22)	0.030 (90, 0)	23652.677	1.27
30	LAVAPORT	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	12587.480	2.00
31	LAVAPORT	0.056 (0, 90)	0.055 (0, 0)	0.055 (90, 0)	31972.510	1.74
32	LAVAPORT	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	24512.869	0.99
33	LAVAPORT	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)	21050.256	0.71
34	LAVAPORT	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	7332.182	2.71
35	LAVAPORT	0.019 (0, 90)	0.018 (90, 0)	0.018 (0, 0)	6578.255	2.89
36	LAVAPORT	0.031 (0, 72)	0.031 (180, 18)	0.031 (90, 0)	13163.394	2.39
37	LAVAPORT	0.013 (0, 90)	0.013 (0, 0)	0.013 (90, 0)	4183.753	3.16
38	LAVAPORT	0.019 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	6061.160	3.16

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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
39	LAVAPORT	0.016 (0, 90)	0.015 (0, 0)	0.015 (90, 0)	4987.391	3.22
4	LAVAPORT	0.025 (0, 79)	0.023 (158, 10)	0.022 (249, 4)	21620.462	1.16
40	LAVAPORT	0.021 (0, 90)	0.021 (90, 0)	0.021 (0, 0)	23431.478	0.90
41	LAVAPORT	0.012 (0, 90)	0.012 (0, 0)	0.012 (90, 0)	19944.420	0.62
42	LAVAPORT	0.020 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	12062.022	1.62
43	LAVAPORT	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)	16855.698	0.89
44	LAVAPORT	0.023 (0, 90)	0.023 (0, 0)	0.023 (90, 0)	16511.942	1.40
45	LAVAPORT	0.029 (0, 90)	0.028 (90, 0)	0.028 (0, 0)	17007.632	1.68
46	LAVAPORT	0.037 (0, 74)	0.036 (180, 16)	0.036 (90, 0)	18690.519	1.99
47	LAVAPORT	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	8596.254	2.82
48	LAVAPORT	0.020 (0, 90)	0.020 (0, 0)	0.020 (90, 0)	7191.158	2.78
49	LAVAPORT	0.015 (0, 90)	0.014 (0, 0)	0.014 (90, 0)	4691.538	3.21
5	LAVAPORT	0.015 (0, 90)	0.015 (0, 0)	0.015 (90, 0)	19945.817	0.77
50	LAVAPORT	0.022 (0, 90)	0.022 (0, 0)	0.022 (90, 0)	9976.942	2.19
6	LAVAPORT	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	18056.702	0.52
64	LAVAPORT	0.019 (0, 90)	0.019 (0, 0)	0.019 (90, 0)	14330.695	1.34
65	LAVAPORT	0.043 (0, 90)	0.043 (0, 0)	0.043 (90, 0)	29074.157	1.49
66	LAVAPORT	0.035 (0, 90)	0.035 (0, 0)	0.035 (90, 0)	25550.321	1.37
67	LAVAPORT	0.029 (0, 90)	0.029 (0, 0)	0.029 (90, 0)	22507.516	1.30
68	LAVAPORT	0.027 (0, 74)	0.026 (180, 16)	0.026 (90, 0)	19657.098	1.35
7	LAVAPORT	0.061 (270, 81)	0.061 (90, 9)	0.061 (0, 0)	35762.261	1.71
7	TXPV	0.061 (270, 81)	0.061 (90, 9)	0.061 (0, 0)	30138.919	2.03
7	TXVA	0.061 (270, 81)	0.061 (90, 9)	0.061 (0, 0)	65811.453	0.93
76	LAVAPORT	0.007 (0, 90)	0.006 (0, 0)	0.006 (90, 0)	2156.205	3.31
76	TXPV	0.007 (0, 90)	0.006 (0, 0)	0.006 (90, 0)	4463.451	1.60
77	LAVAPORT	0.012 (180, 78)	0.010 (0, 12)	0.010 (90, 0)	5043.771	2.41

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0077
 =====

3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
77	TXPV	0.012 (180, 78)	0.010 (0, 12)	0.010 (90, 0)	4255.548	2.86
78	LAVAPORT	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	8661.623	2.51
78	TXPV	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	10553.204	2.06
79	LAVAPORT	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	10960.559	2.17
79	TXPV	0.024 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	10038.876	2.37
8	LAVAPORT	0.059 (0, 90)	0.059 (0, 0)	0.059 (90, 0)	34713.536	1.71
8	TXPV	0.059 (0, 90)	0.059 (0, 0)	0.059 (90, 0)	29029.515	2.04
8	TXVA	0.059 (0, 90)	0.059 (0, 0)	0.059 (90, 0)	64748.076	0.92
80	LAVAPORT	0.032 (0, 90)	0.031 (0, 0)	0.031 (90, 0)	15637.087	2.02
80	TXPV	0.032 (0, 90)	0.031 (0, 0)	0.031 (90, 0)	12501.235	2.53
81	LAVAPORT	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	12335.450	2.05
81	TXPV	0.025 (0, 90)	0.025 (0, 0)	0.025 (90, 0)	9873.254	2.56
82	LAVAPORT	0.034 (0, 90)	0.033 (0, 0)	0.033 (90, 0)	15614.455	2.16
82	TXPV	0.034 (0, 90)	0.033 (0, 0)	0.033 (90, 0)	13792.476	2.44
83	LAVAPORT	0.046 (180, 74)	0.045 (0, 16)	0.045 (90, 0)	18836.740	2.42
83	TXPV	0.046 (180, 74)	0.045 (0, 16)	0.045 (90, 0)	21388.512	2.13
84	LAVAPORT	0.039 (0, 90)	0.039 (0, 0)	0.039 (90, 0)	15871.449	2.48
84	TXPV	0.039 (0, 90)	0.039 (0, 0)	0.039 (90, 0)	18838.299	2.09
85	LAVAPORT	0.035 (0, 90)	0.035 (0, 0)	0.035 (90, 0)	14350.963	2.47
85	TXPV	0.035 (0, 90)	0.035 (0, 0)	0.035 (90, 0)	17199.547	2.06
86	LAVAPORT	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	5222.138	1.78
86	TXPV	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	3219.912	2.88
87	88	0.005 (0, 90)	0.004 (90, 0)	0.004 (0, 0)	1142.840	4.72
87	89	0.006 (0, 90)	0.005 (0, 0)	0.005 (90, 0)	1557.810	3.90
87	90	0.010 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	2933.789	3.39
87	91	0.015 (0, 90)	0.015 (90, 0)	0.015 (0, 0)	4865.797	3.18

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 1101205 CALHOUN CO CONSTRAINED ADJ
 GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0078
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3D Relative Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI (AZ,VANG)	MED-SEMI (AZ,VANG)	MIN-SEMI (AZ,VANG)	DISTANCE	PPM
87	92	0.019 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	6210.832	3.12
87	93	0.017 (0, 90)	0.016 (0, 0)	0.016 (90, 0)	5199.760	3.21
87	94	0.010 (0, 90)	0.010 (0, 0)	0.010 (90, 0)	3014.003	3.37
87	TXPV	0.020 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	17324.364	1.16
87	TXVA	0.020 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	47359.143	0.42
88	TXPV	0.021 (0, 90)	0.019 (90, 0)	0.019 (0, 0)	16945.727	1.22
89	TXPV	0.021 (0, 90)	0.020 (0, 0)	0.020 (90, 0)	15958.054	1.30
9	LAVAPORT	0.055 (180, 79)	0.054 (0, 11)	0.054 (90, 0)	32461.174	1.69
9	TXPV	0.055 (180, 79)	0.054 (0, 11)	0.054 (90, 0)	27455.108	2.00
9	TXVA	0.055 (180, 79)	0.054 (0, 11)	0.054 (90, 0)	62406.662	0.88
90	TXPV	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	15993.094	1.37
91	TXPV	0.024 (0, 90)	0.023 (90, 0)	0.023 (0, 0)	16383.450	1.47
92	TXPV	0.026 (0, 90)	0.025 (90, 0)	0.025 (0, 0)	15800.548	1.66
93	TXPV	0.025 (0, 90)	0.024 (0, 0)	0.024 (90, 0)	20554.840	1.23
94	TXPV	0.022 (0, 90)	0.021 (0, 0)	0.021 (90, 0)	14371.562	1.51
95	TXPV	0.009 (0, 90)	0.009 (0, 0)	0.009 (90, 0)	12737.495	0.72
96	TXPV	0.009 (0, 90)	0.008 (0, 0)	0.008 (90, 0)	12000.639	0.76
97	TXPV	0.011 (0, 90)	0.011 (0, 0)	0.011 (90, 0)	13410.466	0.84
98	TXPV	0.012 (0, 90)	0.012 (0, 0)	0.011 (90, 0)	11167.339	1.09
99	TXPV	0.018 (180, 76)	0.017 (90, 0)	0.017 (0, 14)	10539.793	1.73
A 1257	LAVAPORT	0.033 (0, 0)	0.033 (90, 0)	0.000 (0, 90)	19692.564	1.67
A 1257	TXPV	0.033 (0, 0)	0.033 (90, 0)	0.000 (0, 90)	25933.586	1.27
A 1257	TXVA	0.033 (0, 0)	0.033 (90, 0)	0.000 (0, 90)	20248.544	1.62
E 1258	LAVAPORT	0.036 (0, 0)	0.036 (90, 0)	0.000 (0, 90)	23718.390	1.53
E 1258	TXPV	0.036 (0, 0)	0.036 (90, 0)	0.000 (0, 90)	29776.167	1.22
E 1258	TXVA	0.036 (0, 0)	0.036 (90, 0)	0.000 (0, 90)	22859.540	1.59

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1101205 CALHOUN CO CONSTRAINED ADJ
GeoLab V2.4d GRS 80 UNITS: m,DMS Page 0079

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06:35:28, Wed May 25, 2011

1101205 USGS-CALHOUN COUNTY
HORIZONTAL - NAD 83/07 UTM ZONE 14
VERTICAL - NAVD88 METERS

*** GROUND SURVEY FILE ***

STATION	EASTING	NORTHING	ELEVATION
1	724479.715	3145314.049	2.496
2	723469.576	3146031.513	4.619
3	722041.681	3148478.540	5.042
4	720383.325	3150978.914	6.841
5	718875.074	3153295.238	7.786
6	716757.953	3156541.604	9.567
7	754325.810	3149113.782	1.387
8	753947.666	3150322.218	2.412
9	748259.989	3147522.632	2.853
10	737006.278	3140666.055	1.735
11	734101.905	3146013.011	4.058
12	728621.085	3145430.747	4.156
13	724609.788	3142580.343	1.667
14	723264.030	3152436.998	5.196
15	716834.295	3127008.468	1.721
16	709224.027	3152057.948	4.246
17	740554.494	3161882.560	2.928
18	737666.719	3164218.856	4.181
19	731495.515	3162310.529	4.851
20	729675.049	3166738.587	5.944
21	726631.464	3171559.429	8.718
22	723911.451	3173018.135	9.468
23	728376.146	3176299.105	1.322
24	751688.767	3176204.051	3.134
25	752884.188	3173080.077	1.807
26	748671.854	3170359.460	2.625
27	748968.450	3174522.151	5.221
28	745507.353	3175968.622	3.649
29	742557.366	3176599.370	7.275
30	739165.881	3171297.854	5.641
31	758564.409	3171699.300	2.340
32	745883.279	3156575.186	1.093
33	743280.351	3158870.856	2.134
34	730949.068	3165805.370	4.967
35	732964.157	3170098.617	4.773
36	739099.176	3175780.043	6.995
37	730536.473	3173064.026	6.615
38	720849.914	3169720.759	10.179
39	724242.156	3167290.782	8.549
40	711075.484	3154123.675	1.507
41	714092.275	3156141.665	8.238
42	718536.922	3162705.645	11.417
43	714678.655	3159757.158	11.543
44	712751.041	3162670.466	13.416
45	711119.452	3164604.427	14.768
46	708342.386	3167597.135	16.719
47	717984.017	3171579.201	11.949
48	724631.988	3164773.262	7.825
49	727545.034	3167104.276	6.435
50	723320.886	3162265.343	9.004
51	722489.505	3147943.713	4.920
52	724349.508	3149321.380	4.723
53	726306.451	3150781.293	4.735
54	724298.800	3155397.216	5.411
55	726403.166	3153893.404	5.179
56	728326.254	3152642.202	4.214

57	729743.242	3154468.348	4.552
58	730092.597	3153506.442	4.137
59	726485.365	3148150.158	3.777
60	727074.068	3146083.072	4.209
61	724395.714	3161231.684	8.767
62	723413.436	3158582.928	6.900
63	722270.363	3156088.146	6.413
64	734843.372	3159983.076	4.256
65	741846.296	3146942.877	4.282
66	740163.971	3150047.643	3.124
67	738356.041	3152507.895	2.066
68	736140.197	3154514.556	3.022
69	729985.128	3124185.728	2.073
70	728775.520	3122062.040	1.468
71	726683.177	3122231.443	0.667
72	722370.476	3117052.502	1.590
73	720376.263	3118276.461	0.987
74	715923.994	3112751.408	1.705
75	714953.352	3112138.848	1.911
76	728712.916	3172025.025	6.914
77	729470.850	3167561.387	5.974
78	724916.527	3163194.726	5.380
79	728872.432	3160975.762	6.551
80	733648.472	3157743.443	4.029
81	731583.478	3160417.818	4.914
82	730586.685	3156600.911	5.129
83	717655.418	3155104.676	8.920
84	718347.036	3158124.592	9.073
85	719641.466	3159131.936	9.194
86	730369.727	3168100.802	6.234
87	748915.446	3176581.929	4.617
88	748923.427	3175438.696	4.812
89	747892.806	3175406.024	3.224
90	748412.949	3173690.402	4.460
91	749115.889	3171718.465	3.233
92	748600.727	3170376.791	2.715
93	753096.253	3173486.938	3.108
94	745955.976	3176005.496	1.431
95	741958.797	3161365.615	0.919
96	740080.136	3160677.515	1.076
97	740679.306	3159365.482	2.165
98	737987.800	3160328.333	3.851
99	735133.020	3159938.587	4.290
100	732813.292	3161321.798	4.408
101	731478.276	3162234.273	4.519
102	729556.717	3163985.233	5.542
103	731076.494	3165559.527	4.251
104	732634.451	3166674.412	4.897
105	732111.197	3169641.795	5.713
106	733339.368	3170312.294	1.684
107	738408.001	3162483.961	2.764
108	745067.318	3157242.085	0.975
109	724951.768	3142317.172	1.737
110	723486.588	3146207.933	3.322
111	723058.321	3148352.815	4.340
112	725896.466	3150495.349	3.887
113	728413.393	3152728.481	3.667
114	730312.443	3154981.780	3.688
115	730975.500	3158992.622	5.206
116	734587.141	3156506.139	3.514

117	737777.026	3152686.865	2.357
118	741843.420	3146910.962	3.824
119	734177.169	3145897.292	4.095
120	716898.875	3156266.228	8.916
121	721352.836	3149482.305	5.072
122	718693.617	3153545.738	7.784
123	717325.973	3159768.243	9.540
124	712310.363	3163252.831	12.844
125	708064.441	3167865.873	15.739
126	718915.000	3159374.075	9.528
100C	716761.536	3156552.661	9.472
A 1257	706886.619	3171454.774	16.961
B 595	705327.854	3149759.857	12.016
E 1258	703055.575	3168647.639	8.168
LAVAPORT	726581.293	3171696.909	8.315
TXPV	732795.934	3170219.011	11.996
TXVA	703952.777	3191492.113	38.634

LIDAR FLIGHT LOG



1

01/01
MISSION: Q010711A

DATE: 1/7/11

PILOT: Robbie

OPERATOR: Jessica

AIRCRAFT: 7516Q

PAGE SIGNATURE 3612890417 01/07/2011 14:50	PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	SCAN		PRF	ALT (m)	TIME		Laser Time	TZPK	cont. from previous day	REMARKS
				FREQ	ANGLE			START	STOP				
	1101205	2 test strips						1022	1027		018	static/hobbs 75.3	
Texas	1	N	160	24.5	19	50	2500	1655	1658	:03			
	2	S	150	23.7				1701	1706	:05			
	3	N	160	24.5				1709	1713	:04			
	4	S	145	23.3				1717	1725	:08			
	5	N	160	24.5				1728	1734	:06			
	6	S	140	22.9				1737	1746	:09			
	7	N	160	24.5				1749	1756	:07			
	8	S	145	23.3				1800	1809	:09			
	9	N	160	24.5				1812	1820	:08			
	10	S	145	23.3				1823	1834	:11			
	11	N	160	24.5				1837	1845	:08			
	12	S	145	23.3				1848	1859	:11			
	13	N	160	24.5				1902	1911	:09		(scratches)	
	X-flt W		1	1				1917	1921	:04			
	Y-flt E		1	1	1	1	1	1926	1929	:03		some drops from rain	
								1954	1959			static / 78.7 hobbs	
												01:46:44 Laser ON time	
	STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	FERRY	STATIC	START:	STOP:	NOTES:			
	1101205	199	13	158	3.4			1022					

LIDAR FLIGHT LOG



MISSION: Q012211A				DATE: 1/22/11				AIRCRAFT: N7516Q			
PILOT: Robbie	OPERATOR: Jessica	AIRCRAFT: N7516Q									
PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	SCAN FREQ	ANGLE	PRF	ALT (m)	TIME START	STOP	Laser Time	TZPK	REMARKS
1101205	2 test strips						1645	1650			0181 static
Calhoun Area	14 N	160	24.5	19.	50	2500	1714	1724			
	15 S						1728	1738			
	16 N						1741	1753			
	17 S						1756	1807			
	18 N						1810	1821			
	19 S						1825	1835			
	20 N						1839	1850			
	21 S						1853	1903			
	22 N						1907	1918			
	23 S						1921	1931			
	24 N						1935	1946			
	25 S						1949	1959			
	26 N						2002	2012			
	27 S						2015	2025			
	28 N						2028	203			Lost computer power.
											No restart. Laser was still on
											guessed for x-flts
							1520	1525			static
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE	FERRY	STATIC	START:	STOP:	NOTES: Lost ALTM so couldn't retrieve log files		
● 1101205	199	15		4.5			1645	2125	NN clv. + smooth = good lines		
○											
○											

LIDAR FLIGHT LOG



MISSION QD12711A

DATE: 1/27/11

PILOT: Robbie

PILOT: Robbie OPERATOR: Jessica

AIRCRAFT: 75160

PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	SCAN FREQ ANGLE		PRF	ALT (m)	TIME START	TIME STOP	Laser Time	TZPK	REMARKS
1101205	2 test strips						1011	1016		1111	static
	29 N	155	24	19	50	2500	1043	1048			
	30 S	✓	✓	✓	✓	✓	1052	1059			
	31 N	160	24.5				1102	1108			
	32 S	155	24				1111	1118			
	33 N	160	24.5				1121	1127			
	34 S	155	24				1130	1137			
	35 N	160	24.5				1143	1151			
	36 S	155	24				1155	1205			
	37 N	160	24.5				1208	1217			
	38 S	155	24				1220	1231			
	39 N	160	24.5				1233	1243			
	40 S	155	24				1247	1258			
	41 N	160	24.5				1301	1311			
	42 S	160	24.5				1314	1325			
	43 N	✓	✓				1328	1338			
	X-fit W						1341	1346			
	44 S						1352	1404			
	X-fit	✓	✓	✓	✓	✓	1412	1416			Laser ON time
							1438	1443	static		02:30:56
STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT SITE FERRY			STATIC	START:	STOP:	NOTES: ALTM had force shut down. Lost swath data	
●	1101205	199	16	891	4,3		1011	1443			
○							W				
○											

LIDAR FLIGHT LOG



MISSION: Q012811A

DATE: 1/28/11

PILOT: Robbie

OPERATOR: Jessica

AIRCRAFT: N7516Q

PROJECT NUMBER	LINE NO. & Hdg	GND SPEED (KTS)	SCAN		PRF	ALT (m)	TIME -6		Laser Time	TZPK	REMARKS
			FREQ	ANGLE			START	STOP			
1101205	2 test strips						1101	1106			018) static
	45 N	160	24.5	19	50	2500	1126	1138			
	46 S						1141	1153			
	47 N						1156	1208			
	48 S						1212	1224			
	49 N						1227	1239			
	50 S						1242	1254			
	51 N						1257	1308			
	X-fit E						1311	1313			
	52 S						1322	1324			
	x-fit W		↓	↓	↓	↓	1326	1329			
							1347	1342			static

Laser ON time

01:30:32

3612890417

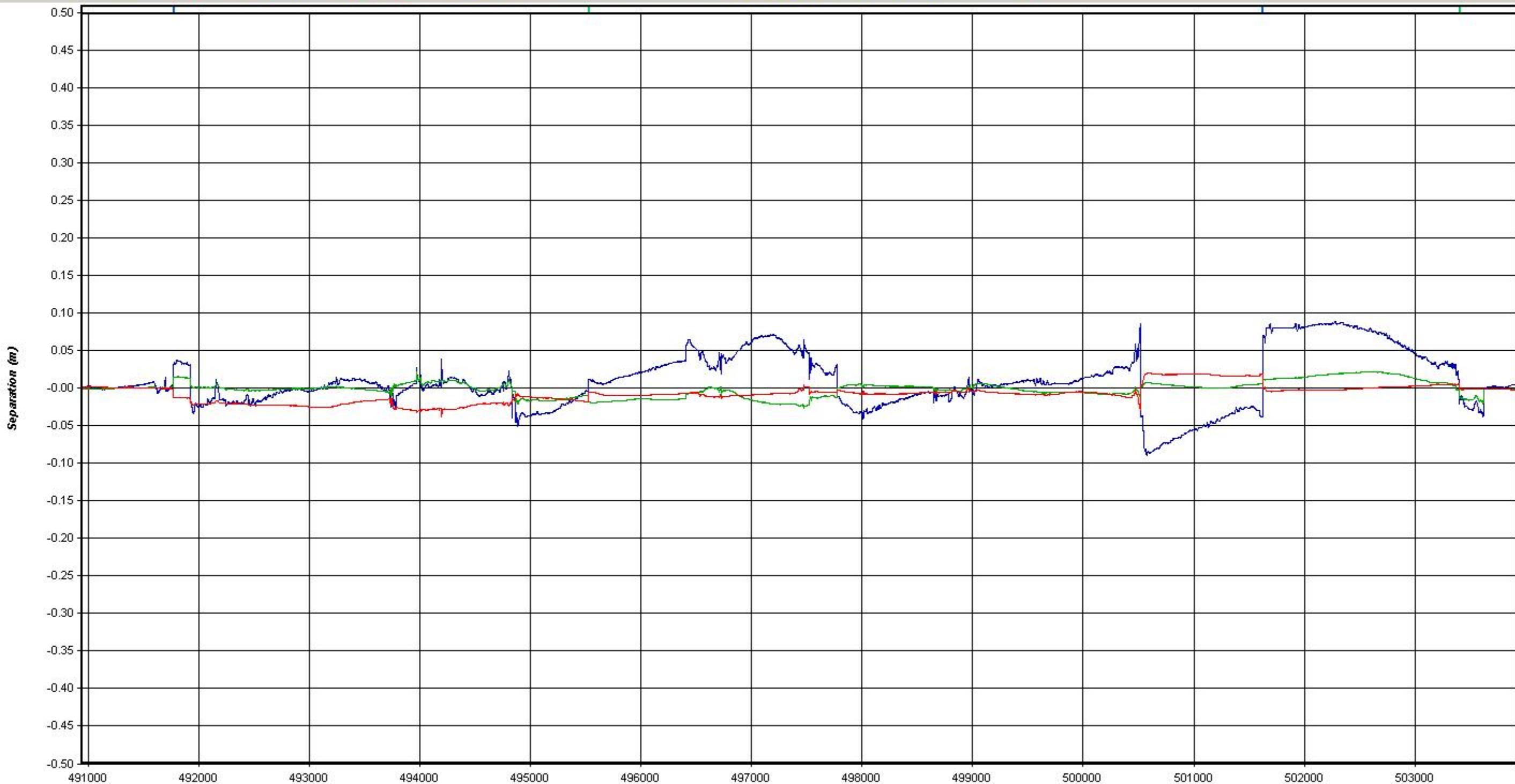
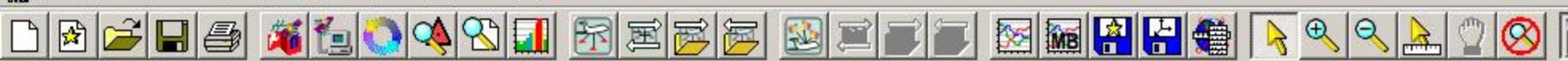
08:46

01/28/2011

01/28/2011

STATUS	TOTAL LINES	FLOWN	LEFT	AIRCRAFT		STATIC	START:	STOP:	NOTES: ALTM shut down again inflight, lost swath
				SITE	FERRY				
1101205	199	8	81	2.6			1101	1342	

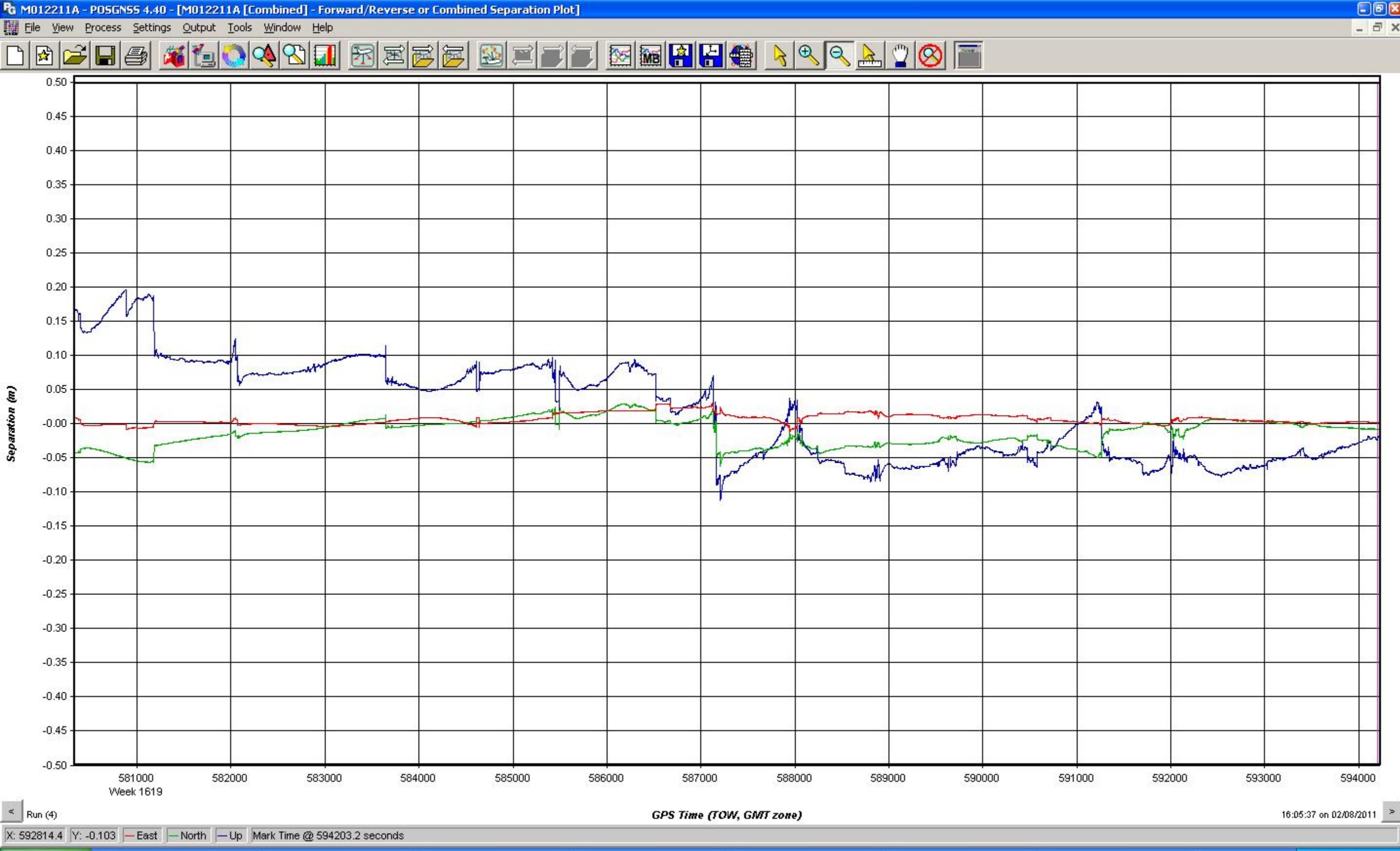
File View Process Settings Output Tools Window Help



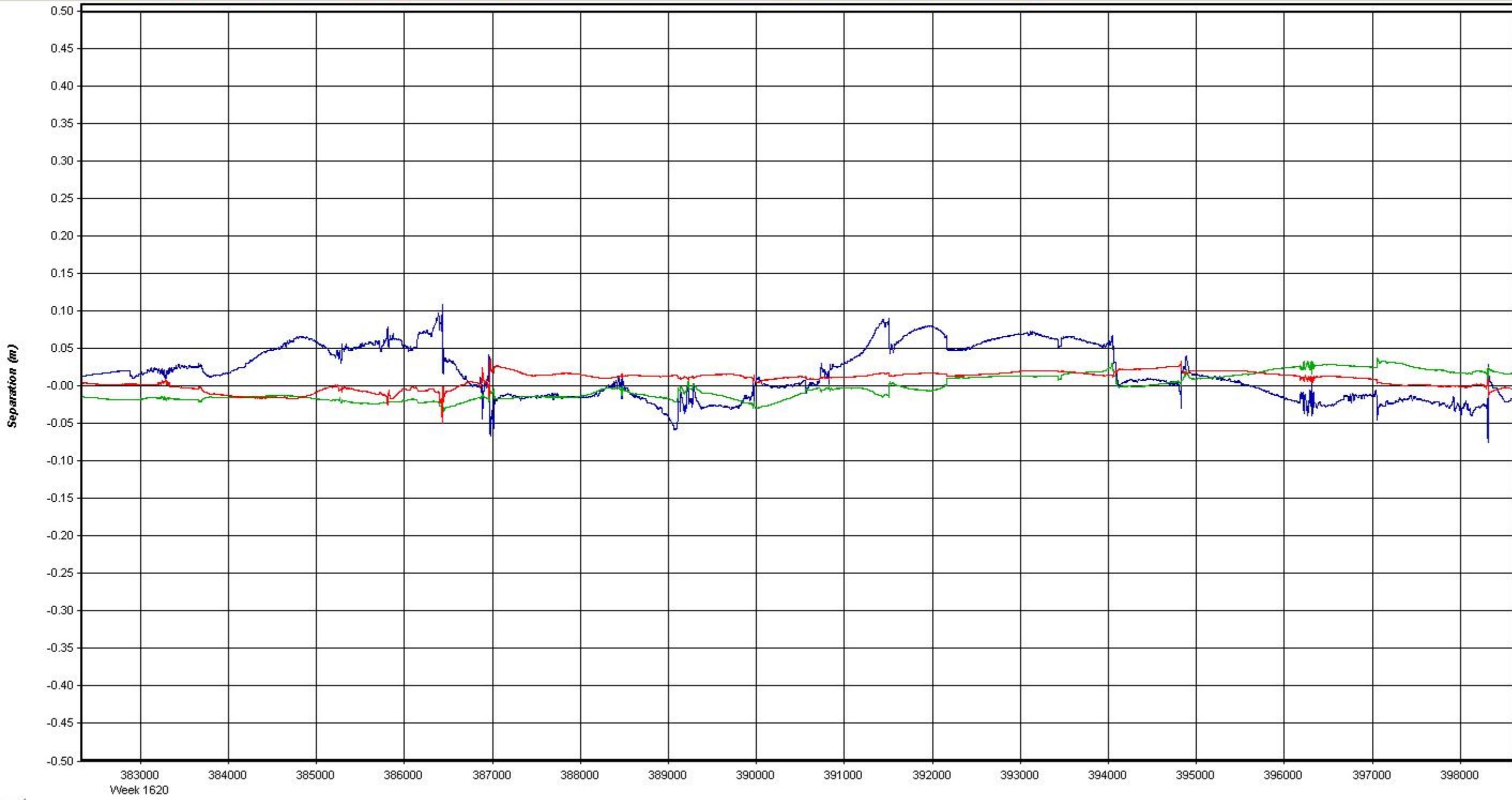
<

Run (18)

14:20:49 on 02/09/2011 >



File View Process Settings Output Tools Window Help

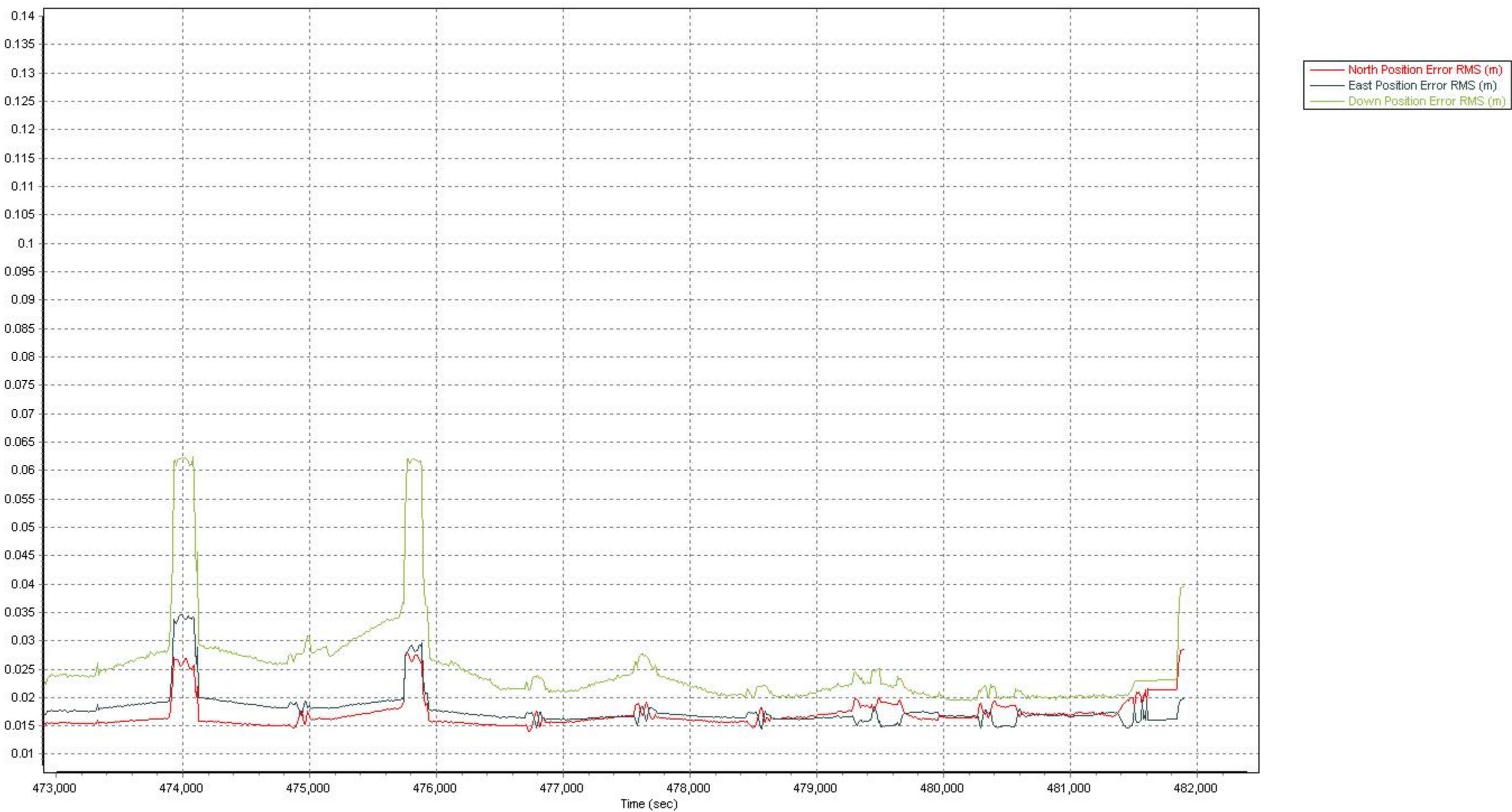


< Run (4)

14:44:54 on 02/09/2011 >

X: 396328.9 Y: 0.376 — East — North — Up Right click for more options

File Edit Tools View Help



R:\1101205\Lidar\QAQC\1101205_CALHOUN_UTM14m_gnd.txt

Number	Easting	Northing	Known Z	Laser Z	Dz
1	724479.715	3145314.048	2.501	2.530	+0.029
3	722041.682	3148478.540	5.047	5.080	+0.033
4	720383.325	3150978.914	6.847	6.830	-0.017
5	718875.075	3153295.237	7.792	7.840	+0.048
6	716757.954	3156541.603	9.574	9.630	+0.056
7	754325.810	3149113.781	1.388	1.270	-0.118
9	748259.989	3147522.632	2.855	2.800	-0.055
10	737006.278	3140666.055	1.738	1.690	-0.048
12	728621.085	3145430.747	4.159	4.100	-0.059
13	724609.791	3142580.346	1.680	1.690	+0.010
14	723264.030	3152436.998	5.200	5.200	+0.000
15	716834.297	3127008.470	1.732	1.680	-0.052
17	740554.485	3161882.550	2.928	2.910	-0.018
18	737666.719	3164218.856	4.183	4.130	-0.053
19	731495.515	3162310.529	4.852	4.810	-0.042
20	729675.049	3166738.587	5.945	5.980	+0.035
21	726631.464	3171559.429	8.718	8.740	+0.022
23	728376.145	3176299.105	1.322	1.390	+0.068
24	751688.761	3176204.044	3.134	3.080	-0.054
25	752884.181	3173080.070	1.807	1.740	-0.067
26	748671.847	3170359.452	2.625	2.600	-0.025
27	748968.444	3174522.144	5.221	5.260	+0.039
28	745507.347	3175968.616	3.649	3.670	+0.021
29	742557.361	3176599.365	7.275	7.260	-0.015
30	739165.875	3171297.847	5.640	5.620	-0.020
31	758564.402	3171699.293	2.340	2.310	-0.030
32	745883.271	3156575.177	1.093	1.030	-0.063
34	730949.064	3165805.367	4.967	4.990	+0.023
35	732964.154	3170098.614	4.773	4.780	+0.007
36	739099.172	3175780.039	6.995	7.010	+0.015
37	730536.473	3173064.025	6.615	6.690	+0.075
38	720849.913	3169720.759	10.179	10.170	-0.009
41	714092.275	3156141.664	8.245	8.380	+0.135
42	718536.923	3162705.645	11.422	11.400	-0.022
43	714678.656	3159757.157	11.549	11.670	+0.121
44	712751.042	3162670.466	13.421	13.460	+0.039
46	708342.386	3167597.135	16.723	16.790	+0.067
47	717984.017	3171579.200	11.950	11.990	+0.040
48	724631.988	3164773.262	7.826	7.830	+0.004
49	727545.034	3167104.276	6.436	6.440	+0.004
50	723320.887	3162265.343	9.008	9.160	+0.152
51	722489.508	3147943.715	4.931	4.970	+0.039
52	724349.510	3149321.381	4.734	4.790	+0.056
54	724298.801	3155397.216	5.419	5.370	-0.049
55	726403.167	3153893.405	5.188	5.160	-0.028
56	728326.256	3152642.204	4.224	4.220	-0.004
58	730092.599	3153506.444	4.146	4.120	-0.026
59	726485.367	3148150.160	3.788	3.820	+0.032
61	724395.715	3161231.684	8.774	8.850	+0.076
62	723413.437	3158582.928	6.907	6.960	+0.053
66	740163.963	3150047.635	3.123	3.070	-0.053
67	738356.034	3152507.887	2.066	2.040	-0.026
68	736140.189	3154514.547	3.021	3.020	-0.001
69	729985.131	3124185.731	2.084	2.170	+0.086
71	726683.179	3122231.445	0.679	0.680	+0.001
75	714953.354	3112138.850	1.922	1.930	+0.008
76	728712.916	3172025.025	6.914	7.000	+0.086

78	724916.527	3163194.726	5.380	5.500	+0.120
80	733648.472	3157743.443	4.029	3.950	-0.079
81	731583.478	3160417.818	4.914	5.030	+0.116
82	730586.685	3156600.911	5.129	5.120	-0.009
84	718347.036	3158124.592	9.073	9.100	+0.027
85	719641.466	3159131.936	9.194	9.210	+0.016
86	730369.727	3168100.802	6.234	6.290	+0.056
16	709224.027	3152057.948	4.252	outside	*
Average dz		+0.012			
Minimum dz		-0.118			
Maximum dz		+0.152			
Average magnitude		0.045			
Root mean square		0.057			
Std deviation		0.056			